

TC-W530/W535

SERVICE MANUAL

TC-W530/W535:
US Model

TC-W530:
Canadian Model
AEP Model



'Dolby' and the double-D symbol are the trade marks of Dolby laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

Photo: TC-W530

SPECIFICATIONS

Tape Transport Mechanism Type	DECK A: TCM-CMAY A-1
	DECK B: TCM-CMAY B-1

Recording system

4-track 2-channel stereo

Fast-forward and rewind time

Approx. 90 sec. (with C-60 cassette)

Bias frequency

105 kHz

Signal-to-noise ratio (NAB, at peak level)

Dolby NR switch Cassette	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	58 dB	65 dB	71 dB
TYPE II (Sony UCX-S)	57 dB	64 dB	70 dB
TYPE I (Sony HF-S)	54 dB	61 dB	67 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

**LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET
UNE MARQUE  SUR LES DIAGRAMMES SCHÉ-
MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-
PLACER CES COMPOSANTS QUE PAR DES PIÈCES
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE
MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR
SONY.**

Frequency response

DOLBY NR OFF

- With TYPE IV cassette (Sony METAL-ES)
20 - 16,000 Hz
- 30 - 15,000 Hz (± 3 dB)
- 30 - 13,000 Hz (± 3 dB, 0 VU recording)

- With TYPE II cassette (Sony UCX-S)
20 - 16,000 Hz
- 30 - 15,000 Hz (± 3 dB)

- With TYPE I cassette (Sony HF-S)
20 - 15,000 Hz

30 - 14,000 Hz (± 3 dB)

0.07% WRMS (NAB)

Line inputs (phono jacks)

Sensitivity 77.5 mV (-20 dB)

Input impedance 50 kilohms

Line outputs (phono jacks)

Output level 0.44 V (-5 dB)

at load impedance 47 kilohms

Output impedance below 10 kilohms

Headphone output (stereo phone jack)

Output level -28 dB at a load impedance
of 8 ohms

0 dB = 0.775 V

— Continued on page 2 —

**STEREO CASSETTE DECK
SONY®**



TC

TC-W530/W535

General

Power requirements

TC-W530:
US, Canadian Model;
120 V ac, 60 Hz
AEP Model;
220 V ac, 50/60 Hz
(240 V ac adjustable by authorized
Sony personnel)
TC-W535:
Supplied from the outside.

Power consumption

23 watts

Dimensions Approx. 430 x 130 x 275 mm (w/h/d)
(17 x 5 $\frac{1}{8}$ x 10 $\frac{7}{8}$ inches)

including projecting parts and controls

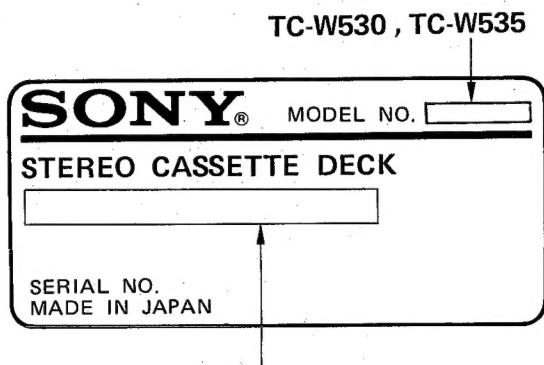
Weight Approx. 5 kg (11 lbs 1 oz)

Supplied accessories

Connecting cord (2)
Remote control cord (1)

MODEL IDENTIFICATION

— Specification Label —



US, Canadian model: AC: 120 V ~ 60 Hz 23 W

AEP model: AC: 220 V ~ 50/60 Hz 23 W

SAFETY CHECK-OUT (US Model)

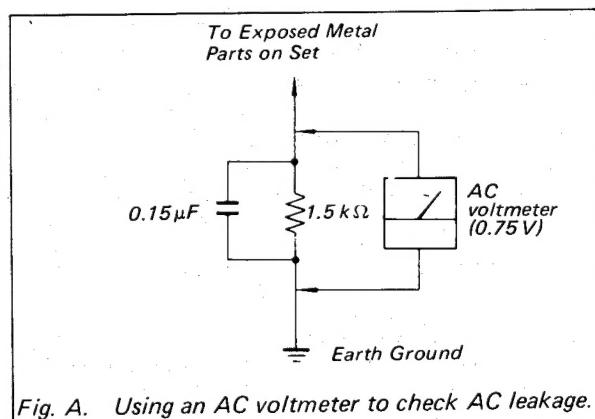
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

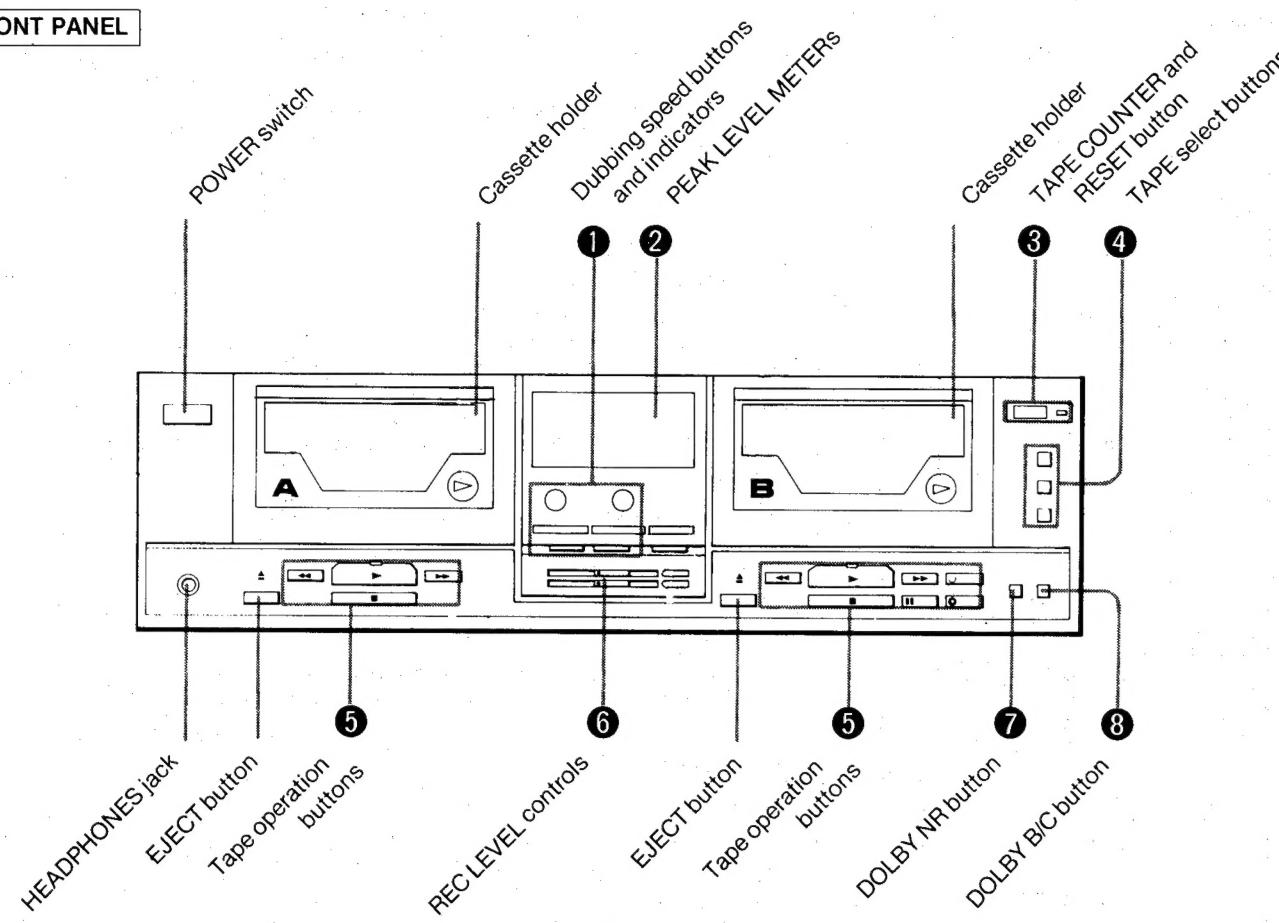
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



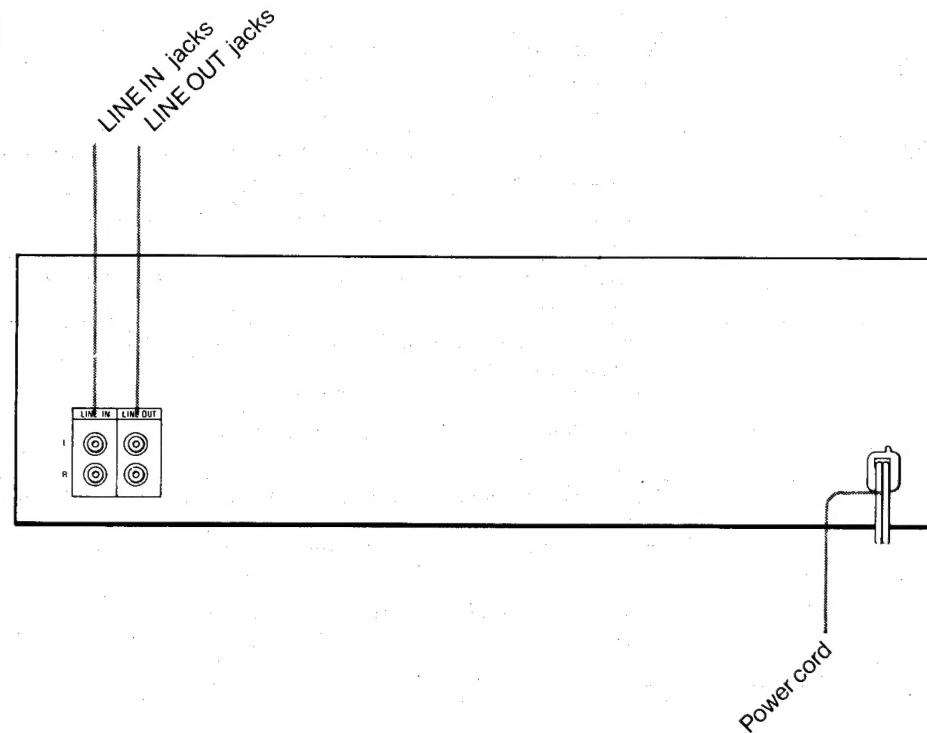
**SECTION 1
OUTLINE**

1-1. FUNCTION OF CONTROLS

FRONT PANEL



REAR PANEL



TC-W530/W535 **TC-W530/W535**

FRONT PANEL

① Dubbing speed select buttons and indicators
HIGH SPEED: Press for high speed dubbing.
NORMAL SPEED: Press for normal speed dubbing.

② PEAK LEVEL METERS

These meters show the peak input level of each channel during recording, and recorded levels during playback. The left-most segment of each meter lights when the power is turned on.

③ TAPE COUNTER and RESET button (deck B)

The tape counter provides a numerical reference point. To reset to zero, press the reset button.

④ TAPE select buttons (deck B)

Press these buttons to select the type of tape you use. The optimum bias current adjustment for recording and the optimum equalization adjustment for both recording and playback are set.

Tape type	TAPES (C46-C90)
TYPE I (NORMAL)	SONY: HF, EF, CHF, HF-S Other TYPE I equivalent tapes (For 120 µs and NORMAL BIAS)
TYPE II (CrO ₂)	SONY: UCX, UCX-S, UX, UX-S, UX-ES, UX-PRO Other TYPE II equivalent tapes (For 70 µs and HIGH BIAS)
TYPE IV (METAL)	SONY: METAL-ES Other TYPE IV equivalent tapes (For 70 µs and METAL BIAS)

⑤ Tape operation buttons

- ▲ (eject) button
- ◀ (fast reverse) button
- (stop) button
- (forward) button
- ▶ (fast forward) button
- REC (record) button (deck B)

To start recording, keeping this button pressed, press the ▶ (or ▲ for TC-WR730) button.

- (record muting) button (deck B)

Press to stop the tape momentarily during recording or playback. To disengage pause mode, press it again.

⑥ REC LEVEL (recording level) controls

Adjust the recording level by observing the PEAK LEVEL METERS.

⑦ DOLBY NR* button

To record with the Dolby NR (Noise Reduction) process, depress this button (□ ON). To record without the Dolby NR process, press to release this button (□ OFF). When playing back, set this button to the same position used in recording.

* "Dolby" and the double-D symbol are trade mark of the Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. The Dolby NR system reduces tape hiss and improves the signal-to-noise ratio at low-level high-frequency signals.

⑧ DOLBY B/C button

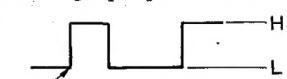
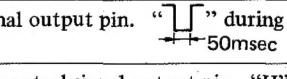
When the Dolby NR process is used, select the type by this button. For the C-type, depress this button.

1-2. IC501 (M50742-404) PIN FUNCTIONS

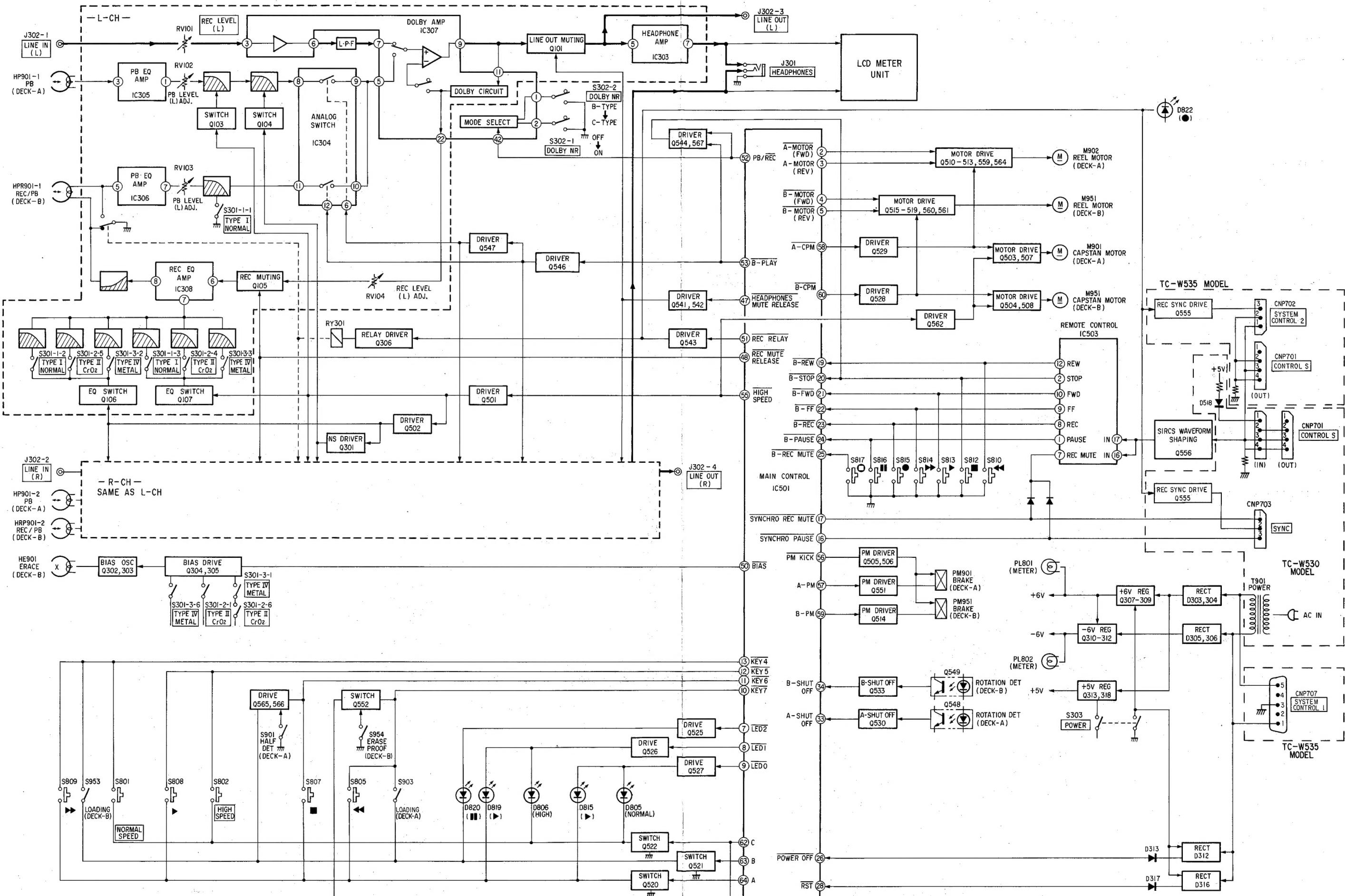
IC501 (M50742-404) is a 4 bit microcomputer which controls the mechanism, does key input and LED display.

The pin functions, key matrix and LED matrix descriptions follow.

Pin No.	Pin Name	I/O	Function
1	VDD	-	Power supply pin.
2	A-MOTOR (FWD)	O	A deck reel motor (FWD) drive output pin. "L" when A deck reel motor rotates FWD, otherwise "H".
3	A-MOTOR (REV)	O	A deck reel motor (REV) drive output pin. "L" when A deck reel motor rotates reverse, otherwise "H".
4	B-MOTOR (FWD)	O	B deck reel motor (FWD) drive output pin. "L" when B deck reel motor rotates FWD, otherwise "H".
5	B-MOTOR (REV)	O	B deck reel motor (REV) drive output pin. "L" when B deck reel motor rotates reverse, otherwise "H".
6	LED3		
7	LED2		
8	LED1		
9	LED0	O	Anode side output pins to dynamically light up LED.
10	KEY7		
11	KEY6	I	Key matrix key return signal input pins.
12	KEY5		
13	KEY4		
14, 15			Not used.
16	SYNCHRO-II	I	Synchro pause release signal input pin. "L" when synchro pause release signal is input; otherwise "H". Only accepted when B deck is in recording mute or recording pause.
17	SYNCHRO-O	I	Synchro recording mute signal input pin. "L" when synchro recording mute signal is input; otherwise "H". Only accepted during B deck recording. If 16 SYNCHRO-II and 17 SYNCHRO-O above both input "L" at the same time, remote control AMS/O input is judged, and during recording, recording mute operation results.
18	B-►	I	B deck ► key input pin.
19	B-◀	I	B deck ▲ key input pin.
20	B-■	I	B deck ■ key input pin.
21	B-►	I	B deck ► key input pin.
22	B-►►	I	B deck ►► key input pin.
23	B-●	I	B deck ● key input pin.
24	B-■■	I	B deck ■■ key input pin.
25	B-○	I	B deck ○ key input pin.
26	POWER OFF	I	Power detection pin. "H" is input for power ON and "L" for power OFF. For power OFF when head is up, the head is lowered immediately.
27	GND	-	Ground pin.
28	RST	I	External reset signal input pin. Reset operation is performed for "L" level input.
29	XI	I	Clock oscillation pins.
30	XO	O	(3.58 MHz on this model.)
31			Not used.
32	GND	-	Ground pin.

Pin No.	Pin Name	I/O	Function
33	A-SHUT OFF	I	<ul style="list-style-type: none"> A deck reel table rotation signal input pin. When a pulse (□□□□□) is input during A deck PB, FF, FR and "H" continues for 2 seconds during PB or 0.5 seconds during FF or FR, shut off occurs. During power ON Switching input pin for 1 direction/2 direction playback. 1 direction playback:  POWER ON 2 direction playback: "H" (Not used on TC-W530)
34	B-SHUT OFF	I	B deck reel table rotation signal input pin. When a pulse (□□□□□) is input during B deck PB, recording, FF, FR and "H" continues for 2 seconds during PB or recording or for 0.5 seconds during FF or FR, shut off occurs.
35-37			Not used.
38	AMS SIG	I	AMS signal input pin. "H" during recorded portion, "L" during blank.
39-41			Not used.
42	TIMER	O	"L" for two seconds only after reset (0.8 seconds), otherwise "H".  POWER ON 800ms
43-46			Not used.
47	H.P MUTE RELEASE	O	Headphone, line output meter muting release signal output pin. "L" for A deck playback, B deck playback and recording, and dubbing; otherwise "H".
48	REC MUTE RELEASE	O	Recording muting release signal output pin. "L" during B deck recording and dubbing, otherwise "H".
49			Not used.
50	BIAS	O	Recording bias oscillation control signal output pin. "L" during B deck recording and dubbing, otherwise "H".
51	REC RELAY	O	Relay control signal output pin. "L" when B deck ●(REC) key, HIGH SPEED DUBBING key or NORMAL SPEED DUBBING key is ON, otherwise "H".
52	PB/REC	O	Playback/recording switching signal output pin. "L" when B deck ○(REC) key is ON, otherwise "H".
53	B-PLAY	O	A deck/B deck switching signal output pin. "L" during B deck playback, otherwise "H".
54			Not used.
55	HIGH SPEED	O	Normal speed dubbing/high speed dubbing switching signal output pin. "L" for high speed dubbing, otherwise "H".
56	PM-KICK	O	Plunger solenoid kick signal output pin. "L" during plunger solenoid kick, otherwise "H". 
57	A-PM	O	A deck plunger solenoid control signal output pin. "H" when A deck plunger solenoid is ON, otherwise "L".
58	A-CPM	O	A deck capstan motor control signal output pin. "L" when A deck capstan motor is ON, otherwise "H". This output is used to lower reel motor torque.
59	B-PM	O	B deck plunger solenoid control signal output pin. "H" when B deck plunger solenoid is ON, otherwise "L".
60	B-CPM	O	B deck capstan motor control signal output pin. "L" when B deck capstan motor is ON, otherwise "H". This output is used to lower reel motor torque.
61	D		
62	C		
63	B		
64	A	O	Key matrix signal source output and cathode side output for dynamic lighting of LED.

1-3. BLOCK DIAGRAM

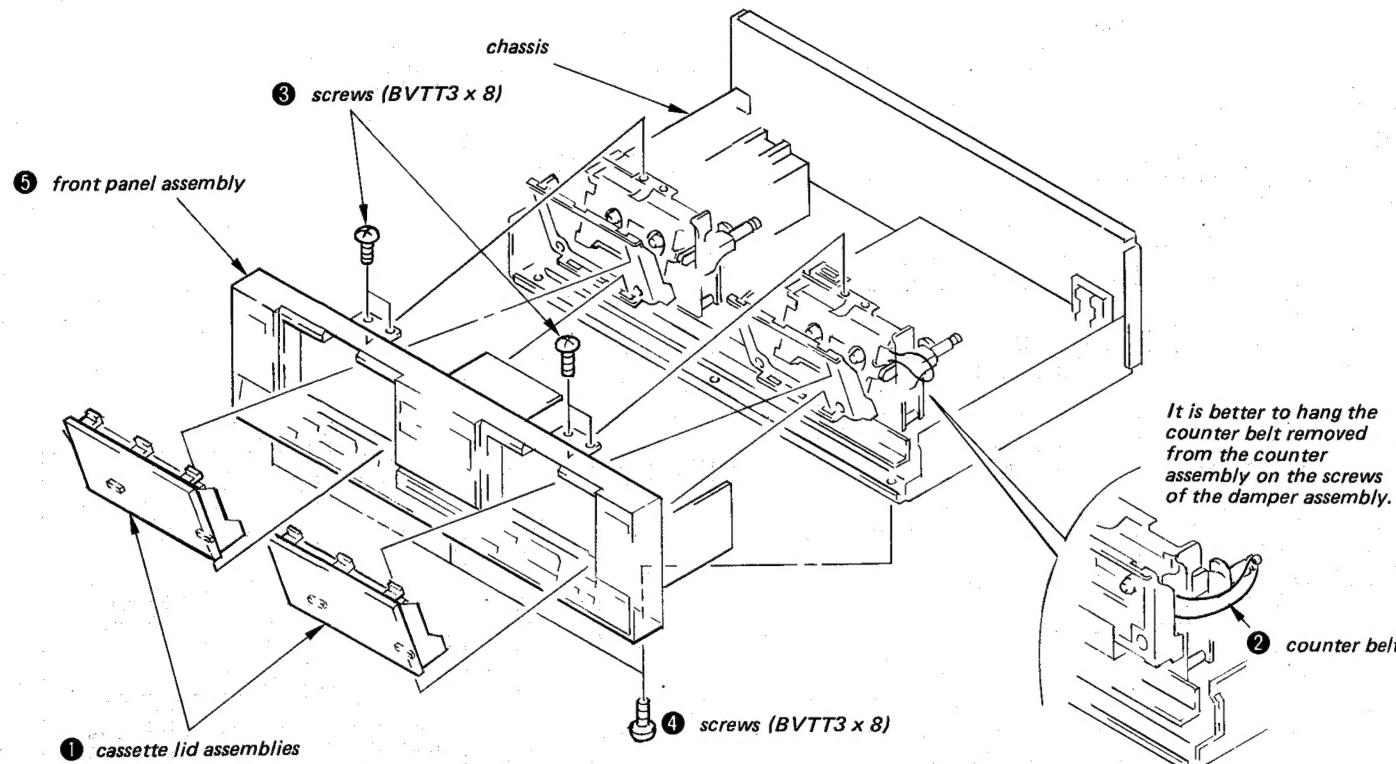


SECTION 2

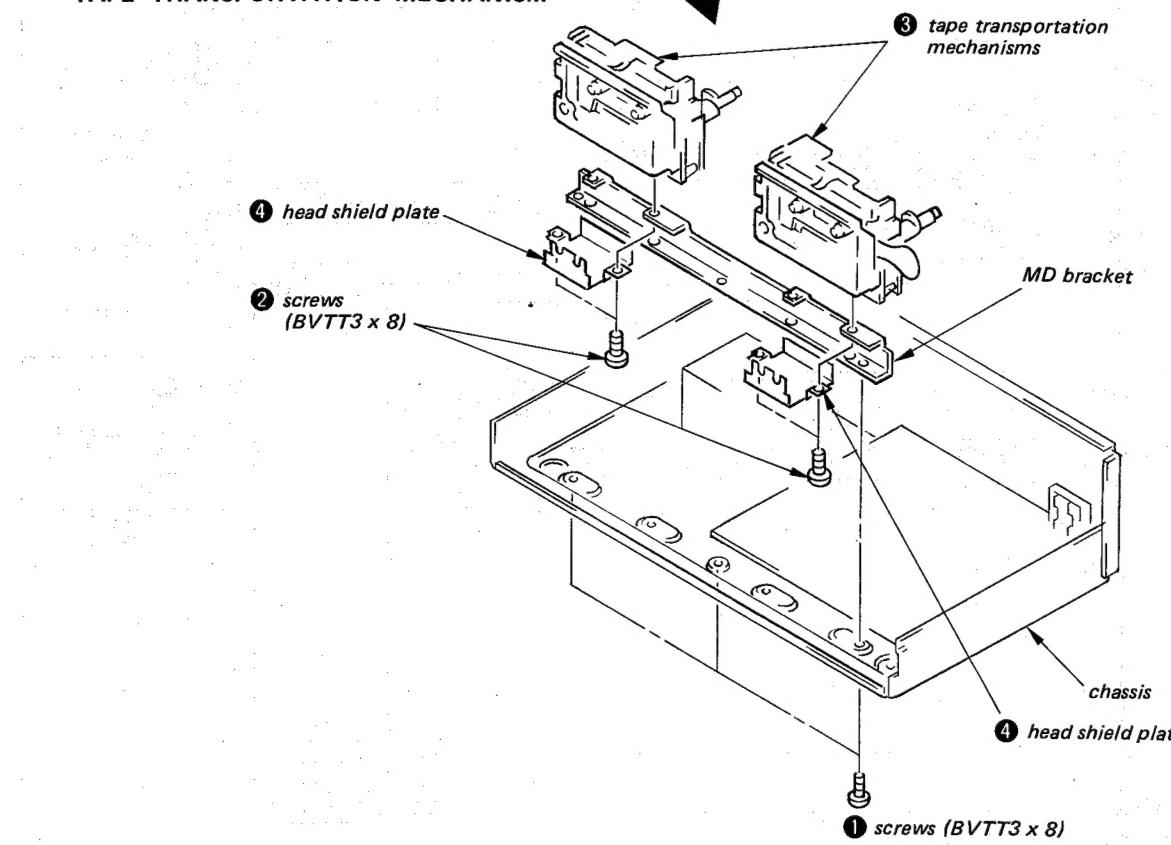
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

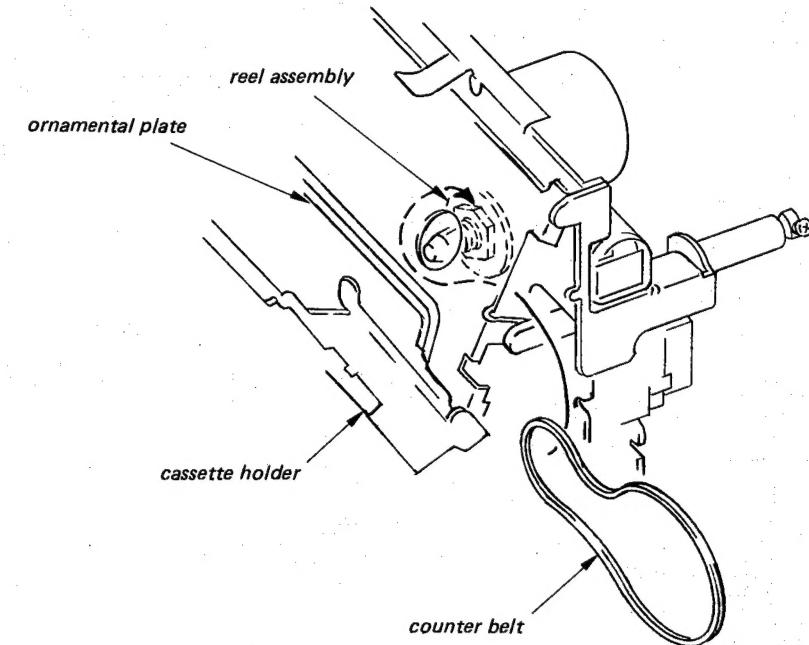
FRONT PANEL



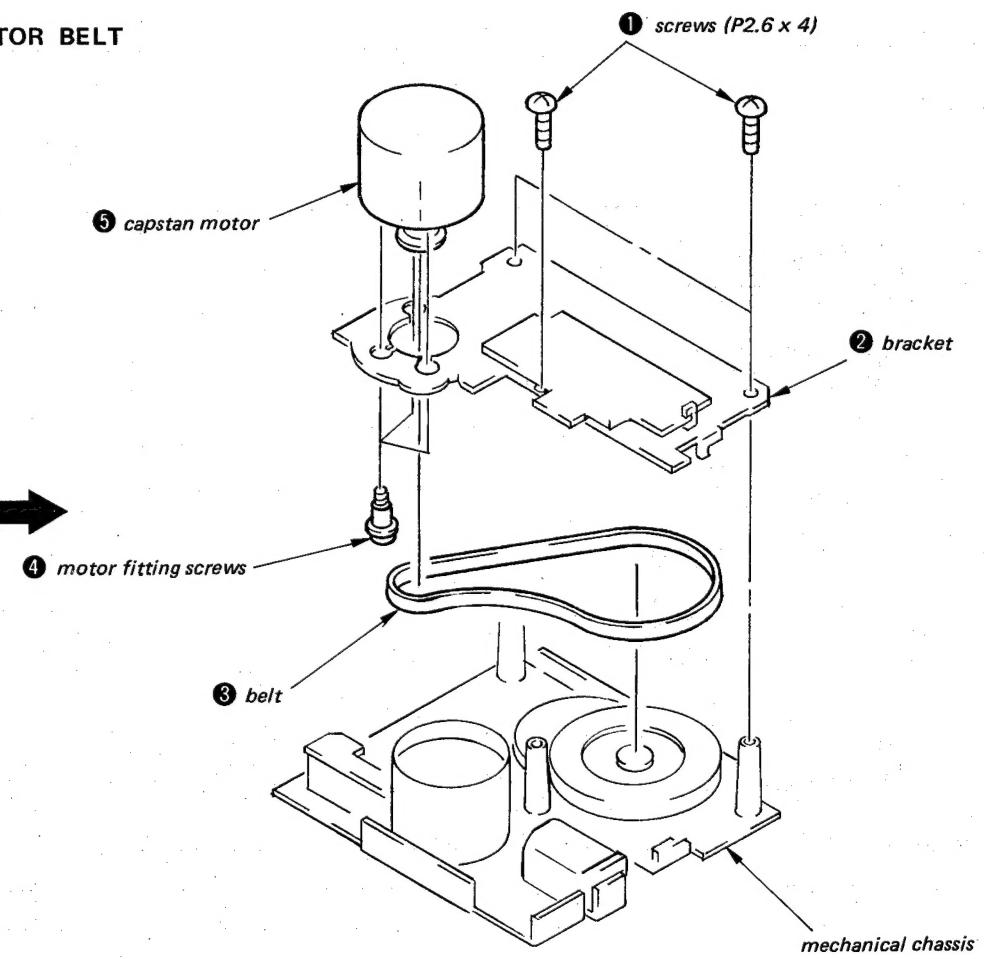
TAPE TRANSPORTATION MECHANISM



COUNTER BELT (DECK B)



MOTOR BELT



SECTION 3

ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

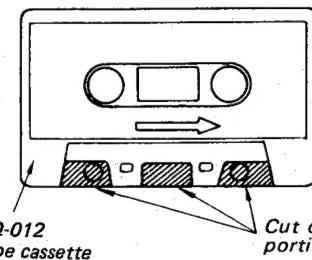
record/playback head	pinch roller
erase head	rubber belts
capstan	idle
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

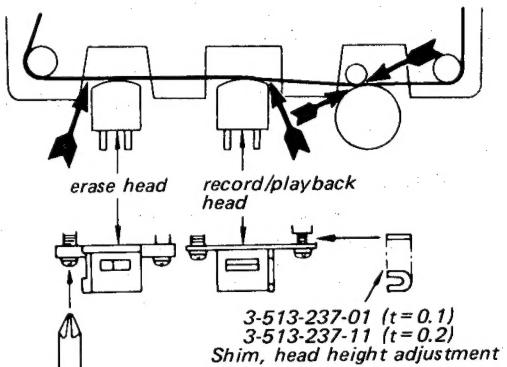
Torque	Torque meter	Meter reading
FWD	CQ-102C	25 to 75 g·cm (0.35 to 1.04 oz-inch)
FWD Back tension	CQ-102C	1 to 10 g·cm (0.014 to 0.14 oz-inch)
FF, REW	CQ-201B	80 to 180 g·cm (1.11 to 2.5 oz-inch)

Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.



3-2. ELECTRICAL ADJUSTMENTS

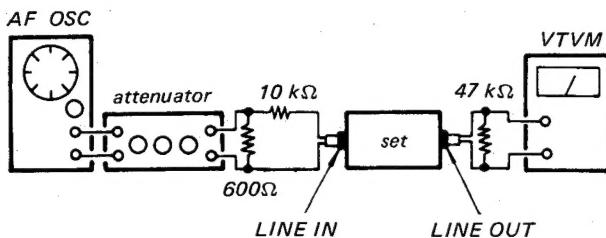
1. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

● Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:	OFF
SYNCHRO DUBBING switch:	NORMAL SPEED
TAPE SELECT switch:	TYPE I (DECK B)

● Standard Record:
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Mode: record



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)

Record/Playback Head Azimuth Adjustment DECK A DECK B

Procedure:

1. Mode: playback

test tape

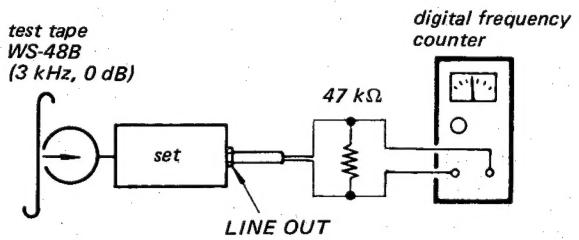
P-4-A 100

(10 kHz, -10 dB)

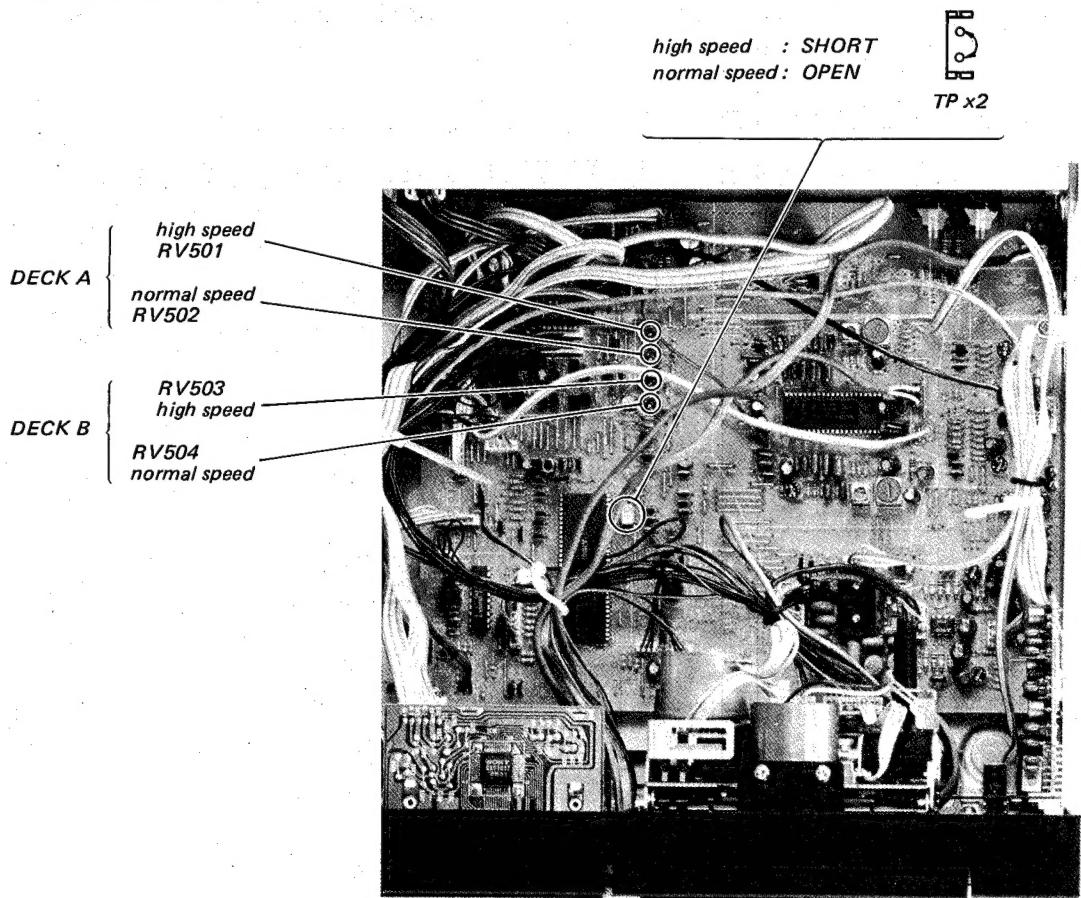
47 kΩ

Tape Speed Adjustment DECK A DECK B**Procedure:**

Mode: playback

**Specifications:**

	Adjustment part		Test pin (TP x2)	Digital frequency counter
High speed	Deck A	RV501	SHORT	5960 to 6040 Hz
	Deck B	RV503		
Normal speed	Deck A	RV502	OPEN	2980 to 3020 Hz
	Deck B	RV504		

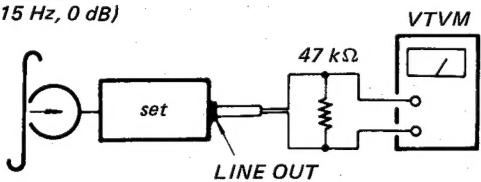
Adjustment Location: audio board

Playback Level Adjustment DECK A DECK B

Procedure:

Mode: playback

*test tape
P-4-L300
(315 Hz, 0 dB)*



Adjust,

DECK-A side RV102 (L-CH), RV202 (R-CH)
DECK-B side RV103 (L-CH), RV203 (R-CH)
so that the specifications are satisfied.

Specification:

LINE OUT level: 0.41 to 0.46 V

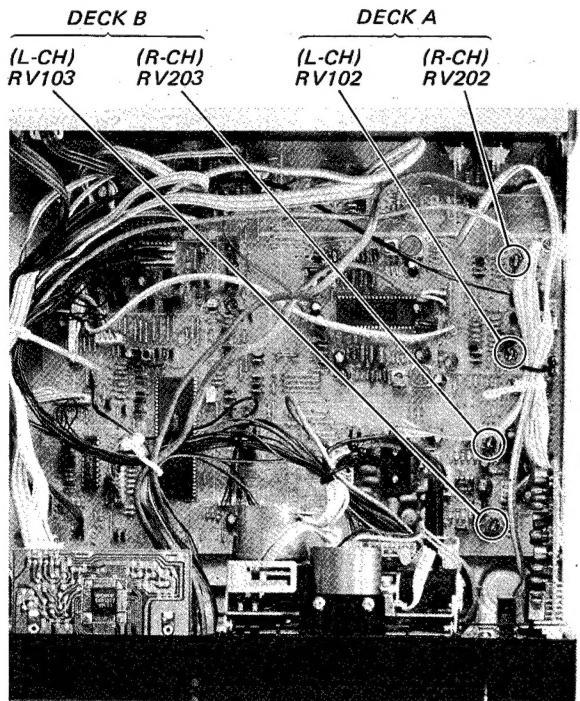
(-5.5 to -4.5 dB)

level difference between the channels:

within 0.5 dB

Confirm that LINE OUT level is not changed when
Playback and Stop are repeated.

Adjustment Location: audio board



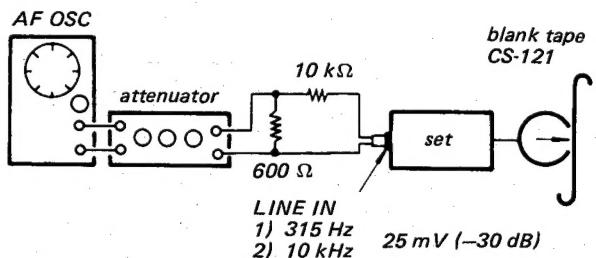
Record BIAS Adjustment DECK B

Setting:

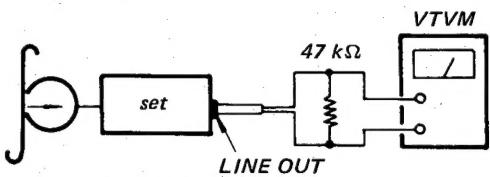
REC LEVEL control: standard record
(See page 12.)

Procedure:

1. Mode: record



2. Mode: playback

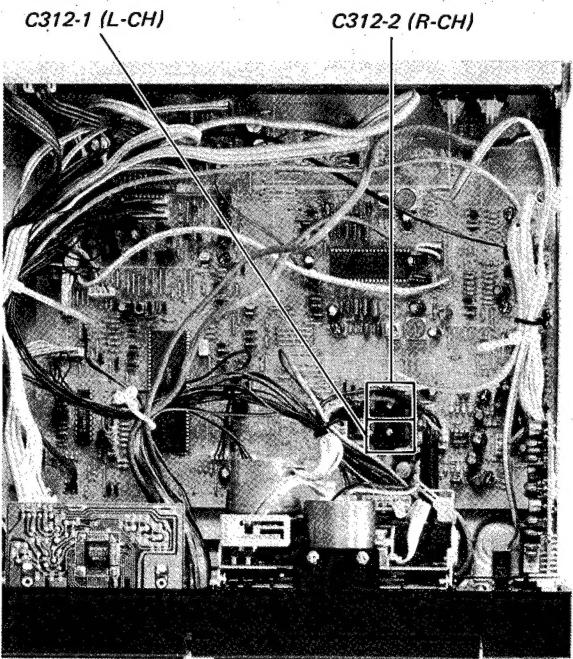


Play back the tape recorded in step 1. If the specification is not satisfied, adjust CT312-1 (L-CH), CT312-2 (R-CH) and repeat steps 1 and 2.

Specification:

The LINE OUT level of 10 kHz signal relative to that of 315 Hz: -0.5 dB to +0.5 dB.

Adjustment Location: audio board

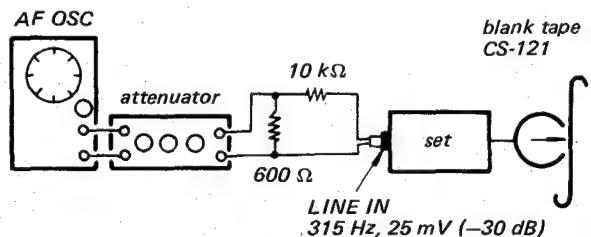


Record Level Adjustment DECK B**Setting:**

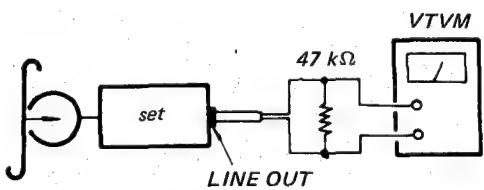
REC LEVEL control: standard record
(See page 12.)

Procedure:

1. Mode: record



2. Mode: playback

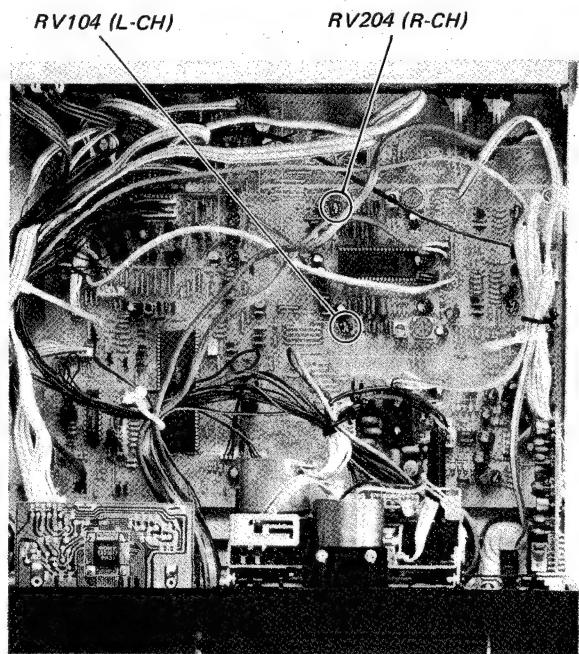


Play back the tape recorded in step 1. If the specification is not satisfied, adjust RV104 (L-CH), RV204 (R-CH) and repeat steps 1 and 2.

Specification:

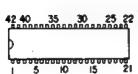
LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Adjustment Location: audio board



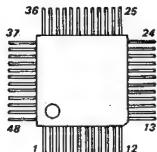
● Semiconductor Lead Layouts

CX20187

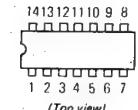


(Top view)

CXD1017Q

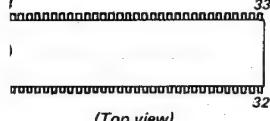


HD14066BP
M4066BP
MB84066B
TC4066BP



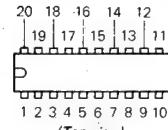
(Top view)

M50742-404SP



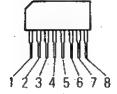
(Top view)

M50761-417P

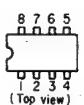


(Top view)

M5218L



M5220P
NJM4558D
 μ PC4558C



(Top view)

2SA950



2SB1094L
2SD1406



2SB734



2SB740



2SA1150
2SA1175
2SC2785



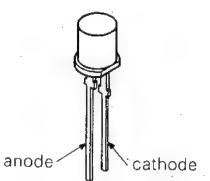
2SA733
2SA933
2SC945-P
2SC2120Y



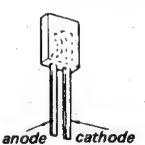
1SS202-1



AY3427S



GL-9NG260



PR2222S-B1



SEL2210W
SEL2910W



SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM — Conductor Side —

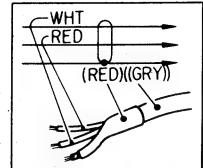
- See page 16 for Semiconductor Lead Layouts.

Note:

- ○ : parts extracted from the component side.

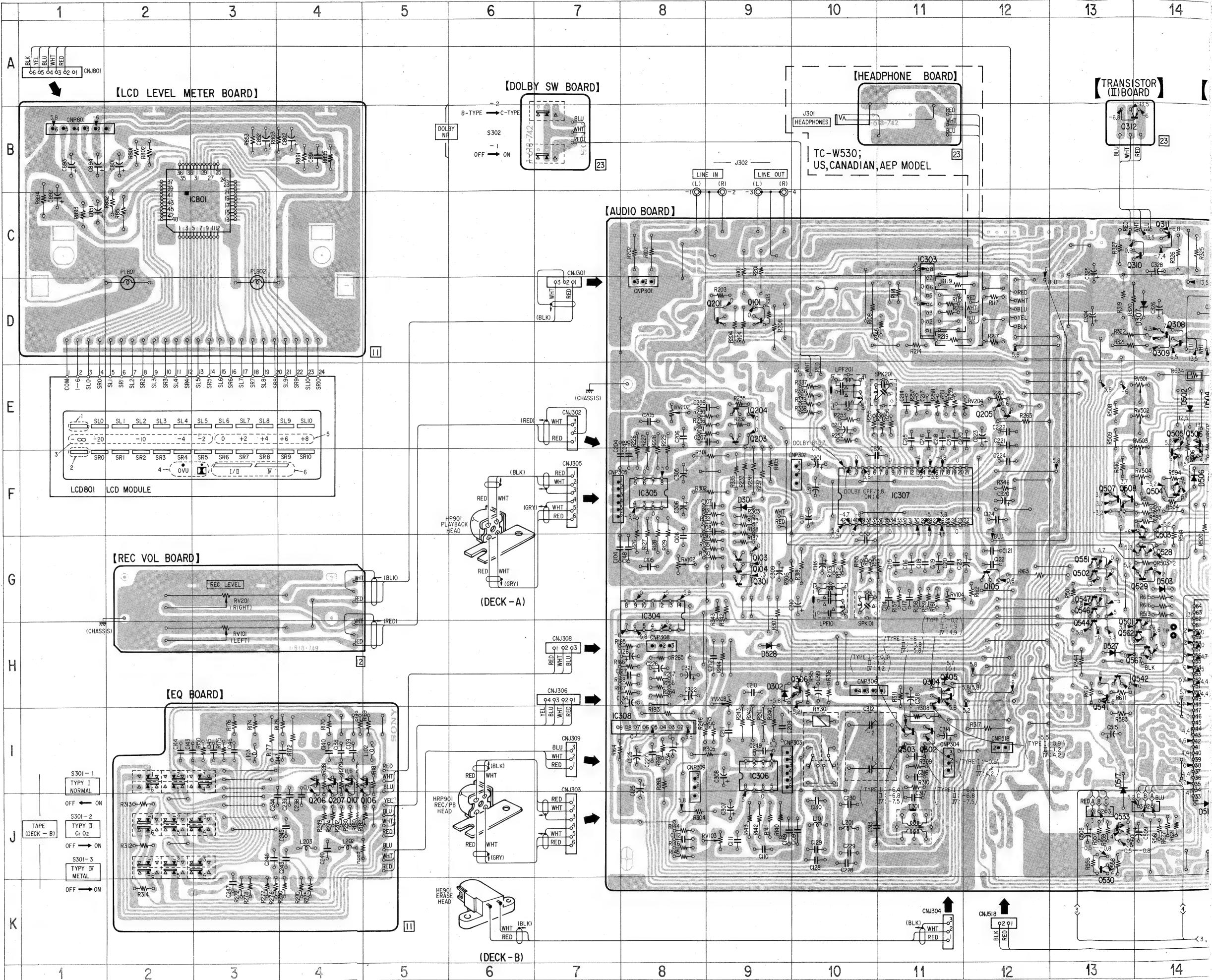
- ● : parts extracted from the conductor side.

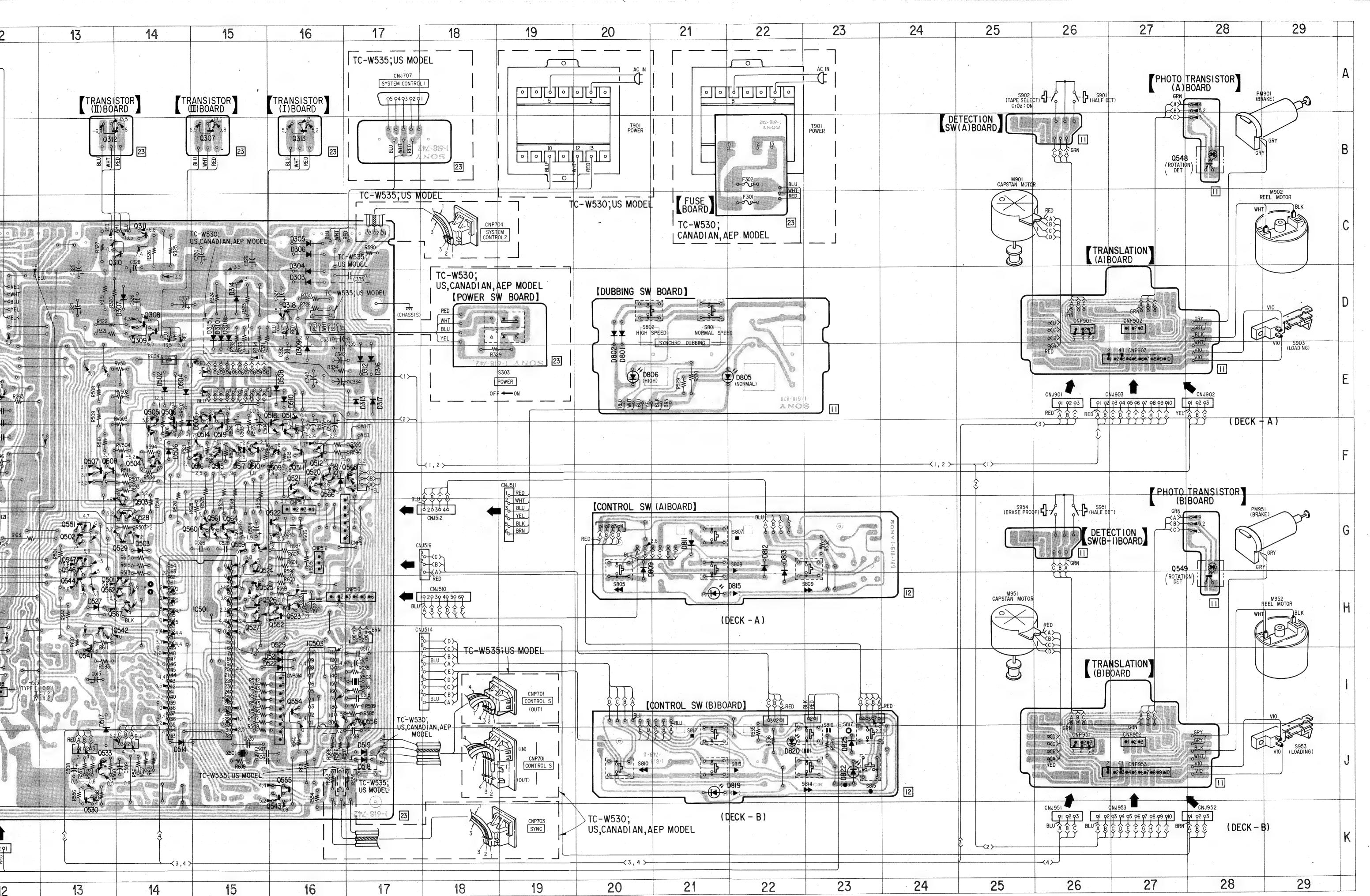
- ■ : part mounted on the conductor side.



SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	F-9	Q101	D-9	Q533	J-13
D302	H-9	Q103	G-9	Q541	H-13
D303	D-16	Q104	G-9	Q542	H-13
D304	C-16	Q105	G-12	Q543	J-16
D305	C-16	Q106	I-5	Q544	H-13
D306	C-16	Q107	I-4	Q546	G-13
D307	D-14	Q201	D-9	Q547	G-13
D308	D-15	Q203	E-9	Q548	B-28
D309	D-16	Q204	E-9	Q549	G-28
D310	D-15	Q205	E-12	Q551	G-13
D312	E-17	Q206	I-4	Q552	H-16
D313	E-17	Q207	I-4	Q554	I-16
D314	D-14	Q301	G-9	Q555	J-16
D315	D-15	Q302	I-11	Q556	I-17
D316	E-17	Q303	I-11	Q559	G-15
D317	E-17	Q304	H-11	Q560	G-15
D502	E-14	Q305	H-11	Q561	G-15
D503	G-14	Q306	H-10	Q562	H-14
D504	E-14	Q307	B-15	Q564	G-15
D505	E-14	Q308	D-14	Q565	F-17
D506	F-14	Q309	D-14	Q566	F-16
D508	E-16	Q310	C-14	Q567	H-14
D510	E-16	Q311	C-14		
D514	J-14	Q312	B-13		
D517	I-13	Q313	B-16		
D518	J-17	Q318	D-16		
D519	J-17	Q501	H-14		
D521	I-16	Q502	G-13		
D522	I-16	Q503	F-14		
D526	F-16	Q504	F-14		
D527	H-14	Q505	E-14		
D528	H-9	Q506	E-14		
D529	H-16	Q507	F-13		
D801	D-20	Q508	F-13		
D802	D-20	Q509	F-16		
D805	E-22	Q510	F-15		
D806	E-20	Q511	F-16		
D809	G-20	Q512	F-16		
D811	G-21	Q513	E-16		
D812	G-22	Q514	E-15		
D813	G-22	Q515	F-15		
D815	H-21	Q516	F-15		
D819	J-21	Q517	F-15		
D820	J-22	Q518	E-16		
D822	J-23	Q519	E-15		
D825	J-23	Q520	F-16		
IC303	D-11	Q521	F-16		
IC304	G-8	Q522	G-16		
IC305	F-8	Q523	H-16		
IC306	I-9	Q524	G-15		
IC307	F-11	Q525	H-15		
IC308	I-8	Q526	H-15		
IC501	H-15	Q527	G-15		
IC503	I-16	Q528	G-14		
IC801	C-3	Q529	G-14		
		Q530	J-13		

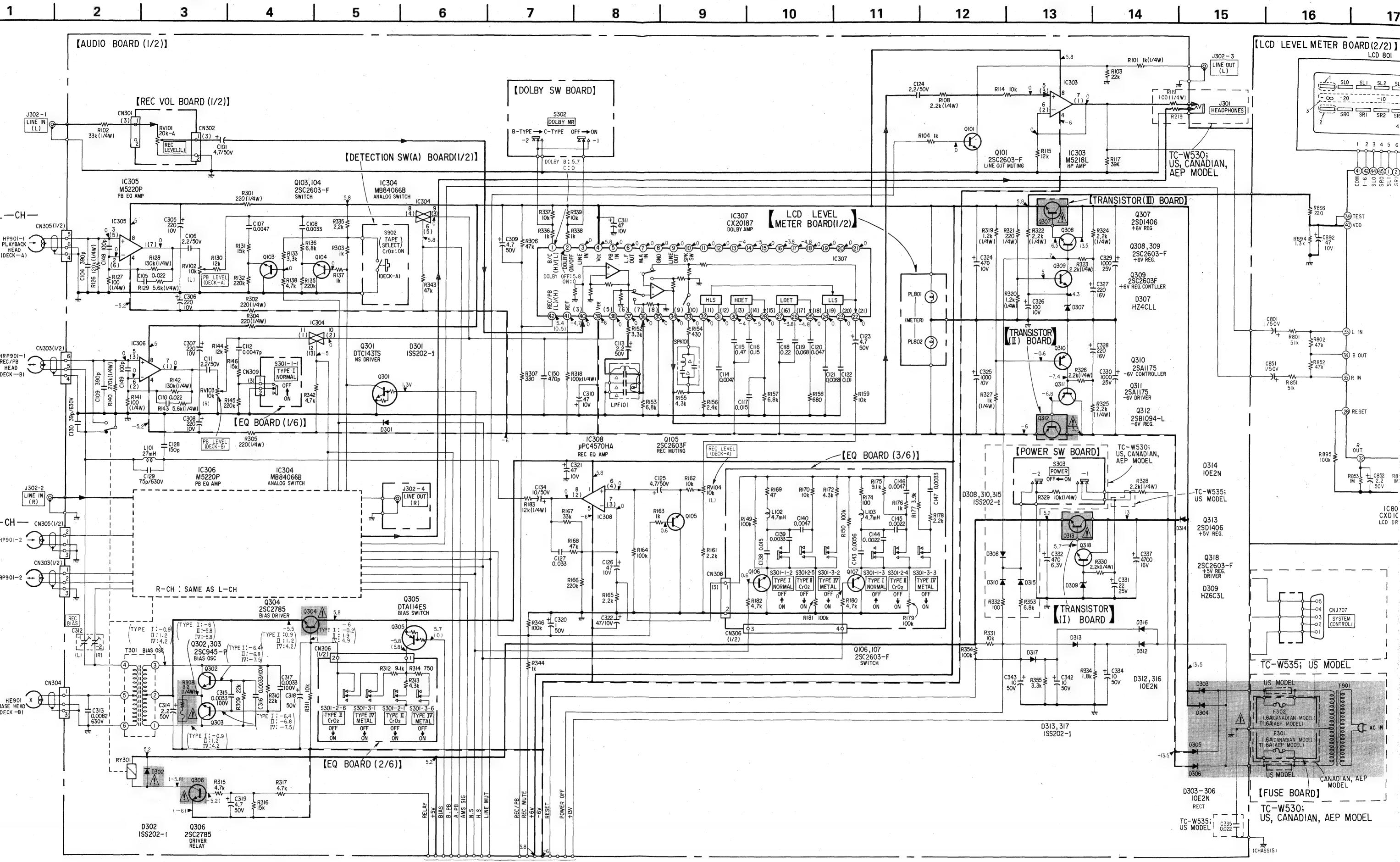


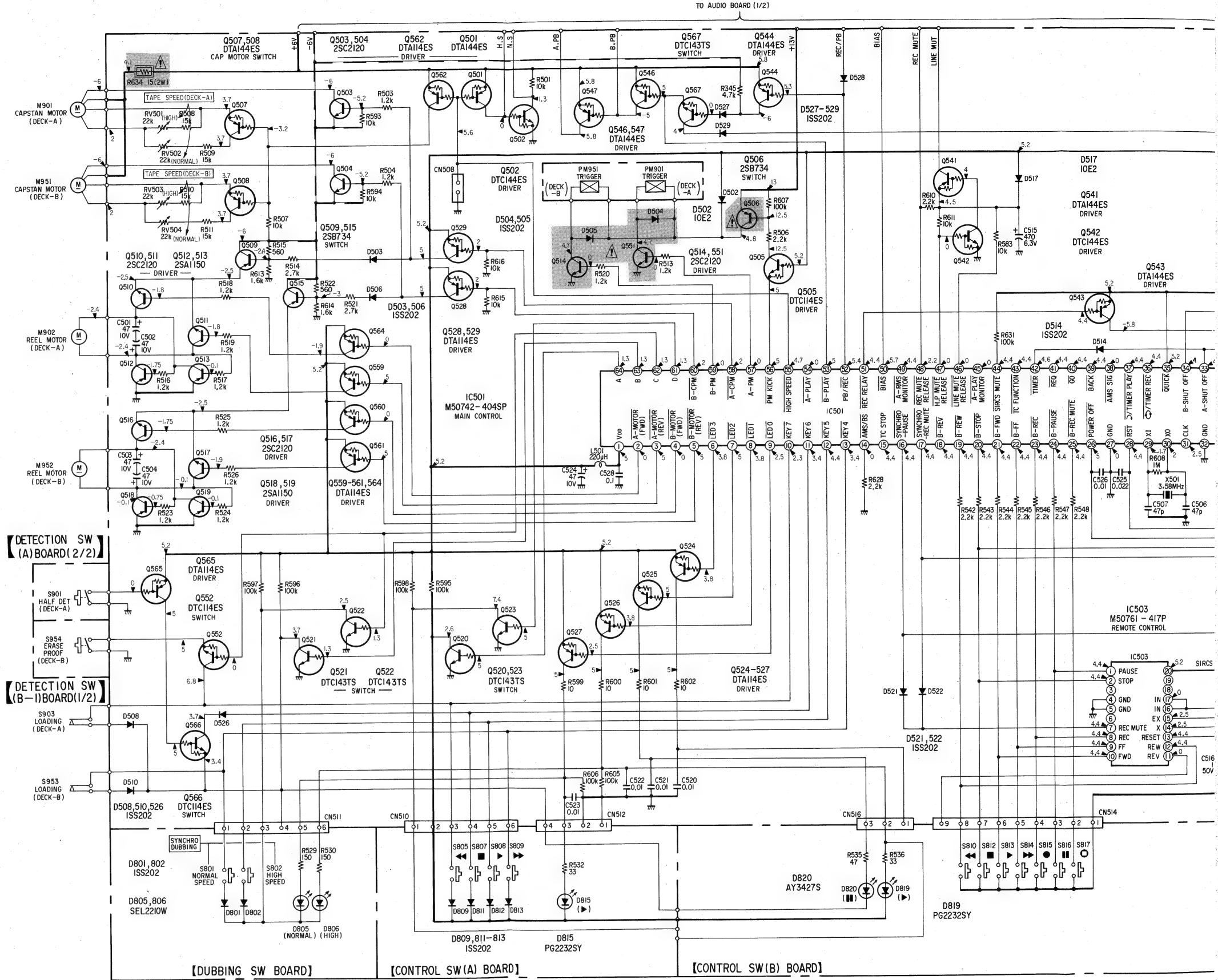
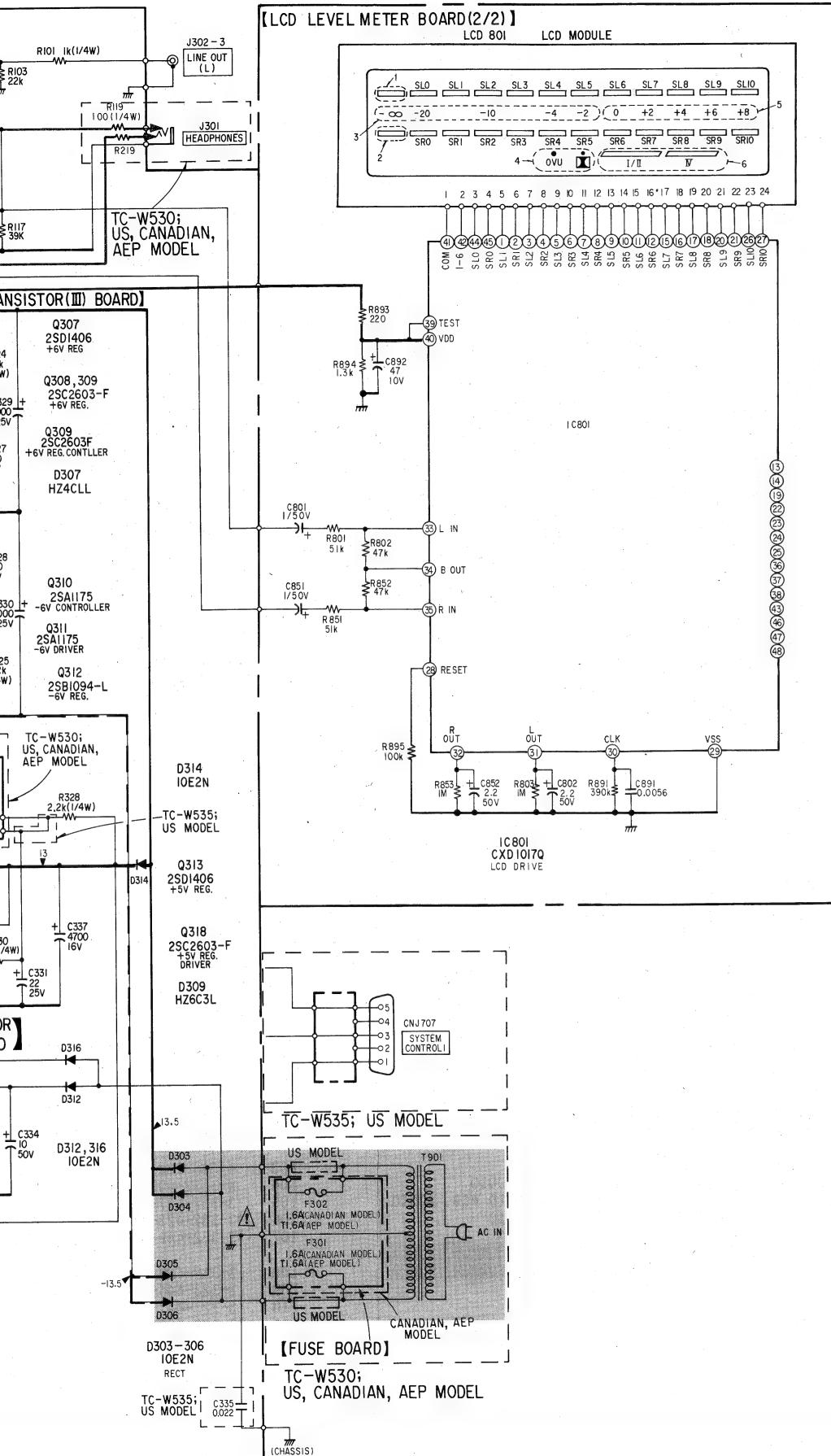


TC-W530/W535 TC-W530/W535

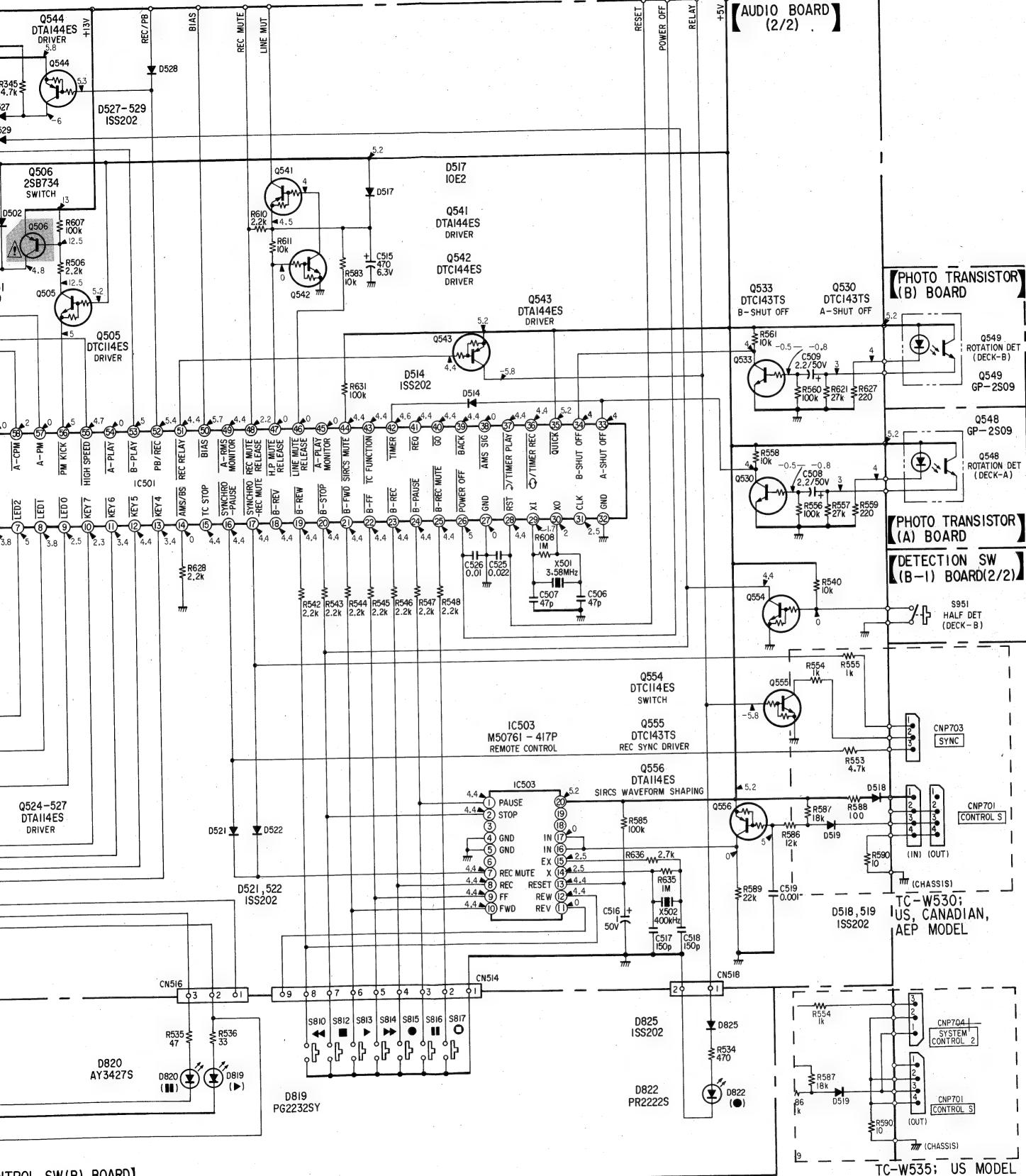
5-2. SCHEMATIC DIAGRAM

• See page 26 for notes.

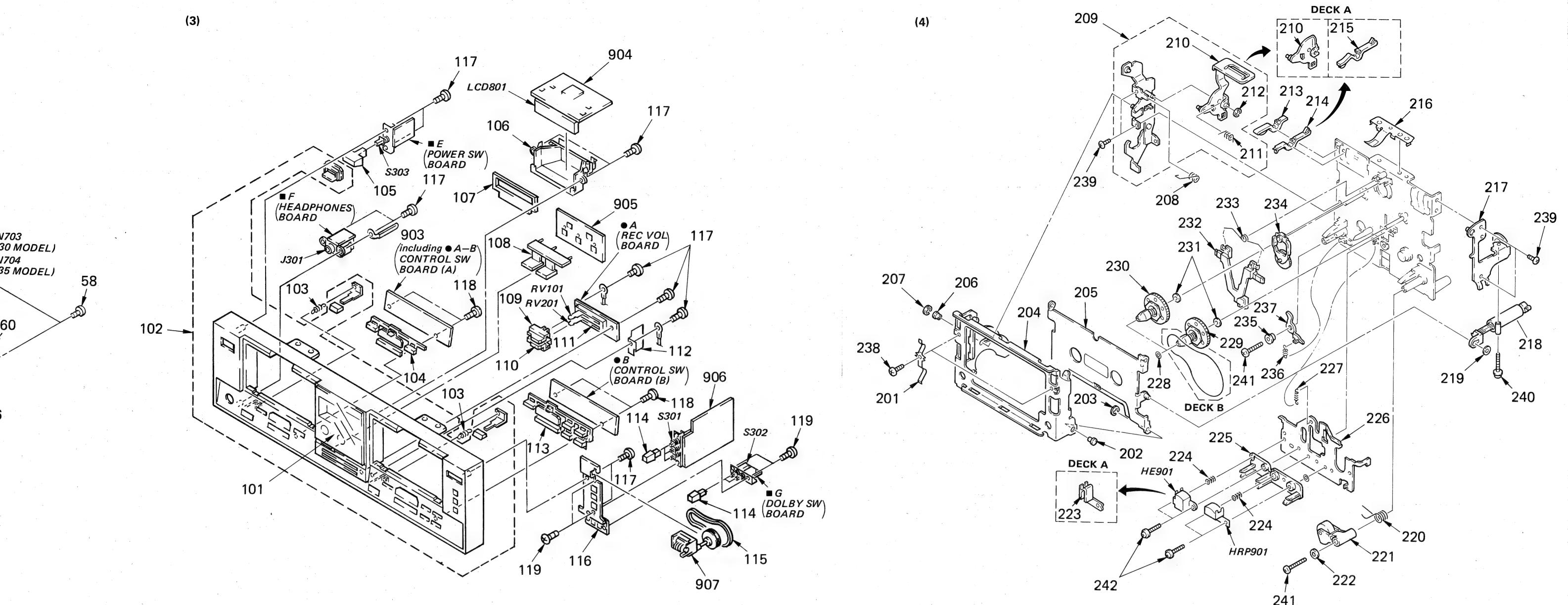




0 BOARD (1/2)



CONTROL SW(B) BOARD

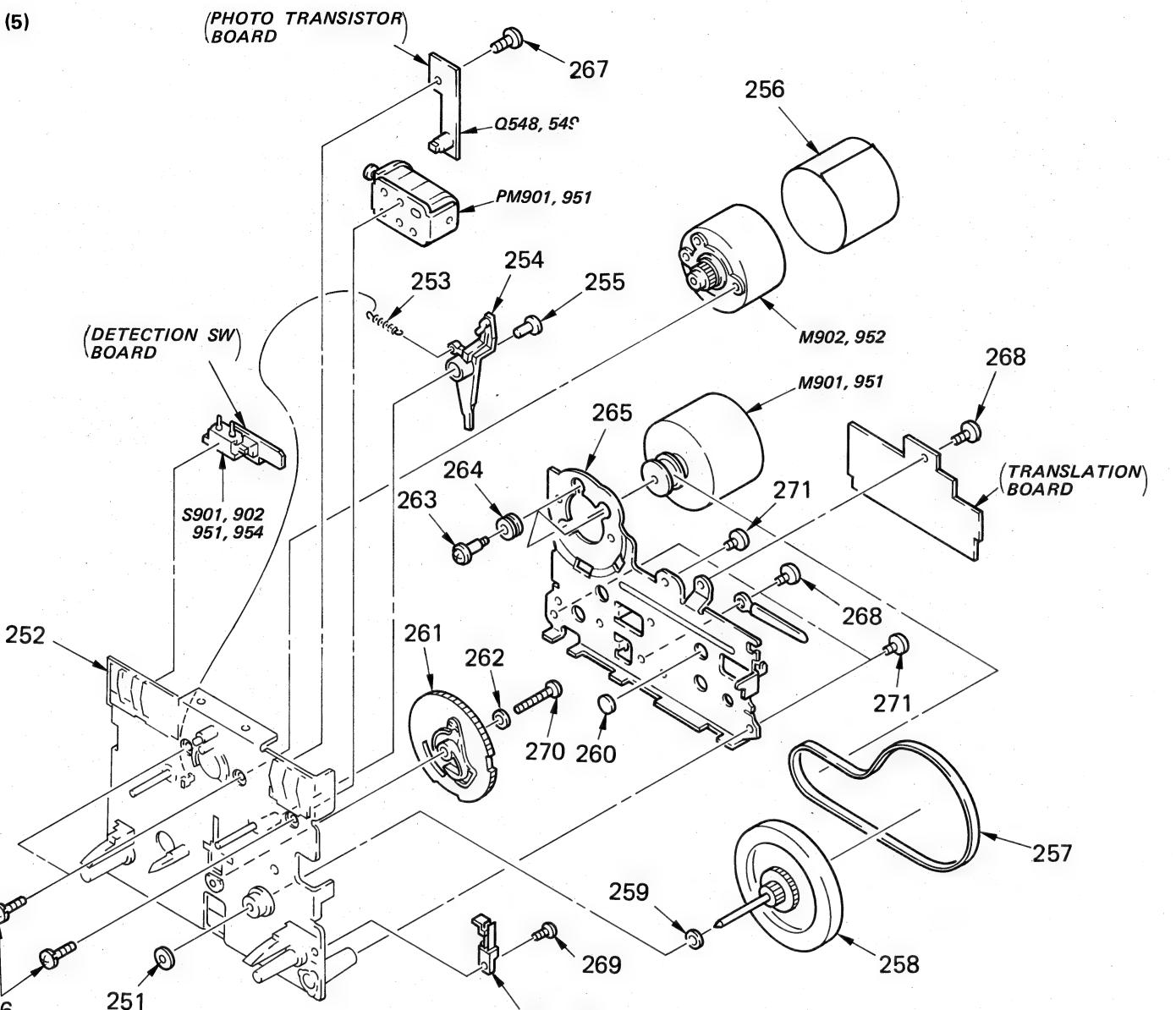


Remarks	No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
N-S	101	3-332-415-01	PLATE, TRANSPARENT		112	*3-332-450-01	PLATE (B), SHIELD		251	3-391-119-01	SEAL, WASHER OIL		264	3-391-138-01	MOTOR, CUSHION	
	102	X-3332-405-2	(TC-W530:US,Canadian)..PANEL ASSY, FRONT		113	X-3332-402-1	BUTTON (B-O) ASSY, CONTROL		252	X-3391-101-1	CHASSIS ASSY, MECHANICAL		265	3-391-130-01	BRACKET (B), F/W	
	103	X-3332-406-2	(TC-W530:AEP)...PANEL ASSY, FRONT		114	4-855-804-11	KNOB, SQUARE		253	3-391-106-01	SPRING		266	7-628-253-95	SCREW +PS 2.6X4	
	104	X-3332-407-2	(TC-W535).....PANEL ASSY, FRONT		115	3-508-107-01	BELT, COUNTER		254	X-3391-114-1	ARM ASSY, PLAY		267	7-685-105-14	SCREW +P 2X8 TYPE2 SLIT	
PCB, AUDIO MOUNTED PCB, AUDIO	105	4-885-182-11	SPRING, TENSION		116	*3-332-419-01	BRACKET, TAPE SELECT		255	3-391-126-01	CAP		268	7-685-781-04	SCREW +BVTT 2X4 (S)	
	106	X-3332-401-1	BUTTON (A-O) ASSY, CONTROL		117	7-685-646-71	SCREW +BVTT 3X8 TYPE2 N-S		256	3-391-132-01	PLATE, SHIELD		269	7-685-104-14	SCREW +P 2X6 TYPE2 SLIT	
	107	3-332-417-01	KNOB (POWER), PUSH		118	7-687-602-19	SCREW, TOTSU BTP 2.6X5 TYPE2		257	3-391-107-01	BELT, MAIN		270	7-685-107-21	SCREW +P 2X12 TYPE2 SLIT	
	108	*3-332-423-01	HOUSE, LAMP		119	7-685-871-01	SCREW +BVTT 3X6 (S)		258	X-3391-113-1	ASSY F/W		271	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT	
TRANSFORMER, POWER	109	*3-332-449-01	CUSHION, DISPLAY		903	*1-618-749-11	PC BOARD, ETC		259	3-701-438-11	WASHER, 2.5		M901	X-3391-117-1	MOTOR	
	110	3-332-420-01	BUTTON, DUBBING		904	*1-618-741-11	PC BOARD, LCD LEVEL METER		260	3-391-129-01	SPACER		M902	X-3391-118-1	MOTOR	
	111	3-323-446-01	KNOB (LEFT), CONTROL		905	*1-618-878-11	PC BOARD, DUBBING SW		261	3-391-128-01	GEAR (B), CAM		M951	X-3391-117-1	MOTOR	
	112	3-323-447-01	KNOB (RIGHT), CONTROL		906	*1-618-743-11	PC BOARD, EQ		262	7-688-001-11	W 2, MIDDLE		M952	X-3391-118-1	MOTOR	
	113	*3-332-402-01	PLATE (A), SHIELD		907	1-548-589-51	COUNTER, TAPE (MIDDLE TYPE)		263	3-391-147-01	SCREW, MOTOR FITTING					

SECTION 6

ELECTRICAL PARTS LIST

(5)



No.	Part No.	Description	Remarks	No.	Part No.	Description
201	3-391-151-01	SPRING		222	7-688-001-11	W 2, MIDDLE
202	3-391-152-01	STUD, DOOR		223	3-391-108-01	GUIDE, TAPE
203	7-624-102-04	STOP RING 1.5, TYPE -E		224	3-391-101-01	SPRING
204	3-391-150-01	HOLDER, CASSETTE		225	3-391-102-01	SPACER, HEAD
205	3-391-149-01	PLATE, ORNAMENTAL		226	3-391-103-01	BASE, HEAD
206	3-391-153-01	ROLLER		227	3-391-114-01	SPRING
207	7-624-104-04	STOP RING 2.0, TYPE -E		228	3-701-436-11	WASHER, 1.6
208	3-391-154-01	SPRING (A)		229	X-3391-106-1	REEL ASSY
209	X-3391-116-1	ARM ASSY, EJECT		230	X-3391-107-1	REEL ASSY, T.U
210	3-391-145-01	LEVER (B), EJECT		231	3-327-708-31	WASHER
211	3-391-146-01	SPRING (B)		232	X-3391-108-1	BRAKE ASSY
212	7-624-105-04	STOP RING 2.3, TYPE -E		233	3-391-124-01	SPRING
213	3-391-131-01	LEVER, PACK INSPECTION		234	X-3391-111-1	IDLER ASSY
214	3-391-157-01	LEVER, REC INSPECTION		235	3-391-120-01	CALLOR
215	3-391-155-01	LEVER, CHROME INSPECTION		236	3-391-123-01	SPRING (A)
216	3-391-125-01	SPRING		237	3-391-105-01	ARM (B), EJECT SAFETY
217	3-391-144-01	BRACKET (R), DAMPER		238	7-685-780-01	SCREW +PTT 2X3 (S)
218	X-3391-115-1	DAMPER ASSY		239	7-685-790-04	SCREW +PTT 2.6X4 (S)
219	3-391-148-01	WASHER LOCK		240	7-621-955-75	SCREW, TOTSU PWH 2X12
220	3-391-115-01	SPRING (RIGHT)		241	7-685-107-21	SCREW +P 2X12 TYPE2 SLIT
221	X-3391-104-1	PINCH ROLLER ASSY		242	7-628-253-05	SCREW +PS 2X4

NOTE :

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: $\mu\mu$ F.

RESIST

- All resistors are in ohms.
- F : nonflammable

GOI

• MMH : mH, UH : μ H

SEMICONDUCTORS

SEMICONDUCTORS

In each case, σ : μ , for example:
UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,
UPD...: μ PD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
901	*A-2056-327-A	(TC-W530:US)...	MOUNTED PCB, AUDIO			C145	1-110-199-00	MYLAR	0.0022MF	5%	50V
	*A-2056-328-A	(TC-W530:Canadian,AEP)				C146	1-110-203-00	MYLAR	0.0047MF	5%	50V
		...MOUNTED PCB, AUDIO				C147	1-110-201-00	MYLAR	0.0033MF	5%	50V
902	A.1-551-510-11	(TC-W530:US,Canadian)...	CORD, POWER			C148	1-162-282-31	CERAMIC	100PF	10%	50V
	A.1-551-908-11	(TC-W530:AEP)...	CORD, POWER, EULO PLUG			C149	1-162-282-31	CERAMIC	100PF	10%	50V
903	*1-618-749-11	PC BOARD, ETC				C150	1-162-290-31	CERAMIC	470PF	10%	50V
904	*1-618-741-11	PC BOARD, LCD LEVEL METER				C201	1-124-927-11	ELECT	4.7MF	20%	50V
905	*1-618-878-11	PC BOARD, DUBBING SW				C204	1-162-289-31	CERAMIC	390PF	10%	50V
906	*1-618-743-11	PC BOARD, EQ				C205	1-136-157-00	FILM	0.022MF	5%	50V
907	1-548-589-51	COUNTER, TAPE (MIDDLE TYPE)				C206	1-124-183-00	ELECT	2.2MF	20%	50V
C101	1-124-927-11	ELECT	4.7MF	20%	50V	C207	1-110-203-00	MYLAR	0.0047MF	5%	50V
C104	1-162-289-31	CERAMIC	390PF	10%	50V	C208	1-162-303-31	CERAMIC	0.0033MF	30%	16V
C105	1-136-157-00	FILM	0.022MF	5%	50V	C209	1-162-289-31	CERAMIC	390PF	10%	50V
C106	1-124-183-00	ELECT	2.2MF	20%	50V	C210	1-136-157-00	FILM	0.022MF	5%	50V
C107	1-110-203-00	MYLAR	0.0047MF	5%	50V	C211	1-124-183-00	ELECT	2.2MF	20%	50V
C108	1-162-303-31	CERAMIC	0.0033MF	30%	16V	C212	1-162-304-31	CERAMIC	0.0047MF	30%	16V
C109	1-162-289-31	CERAMIC	390PF	10%	50V	C213	1-124-904-00	ELECT	2.2MF	20%	50V
C110	1-136-157-00	FILM	0.022MF	5%	50V	C214	1-110-203-00	MYLAR	0.0047MF	5%	50V
C111	1-124-183-00	ELECT	2.2MF	20%	50V	C215	1-136-173-00	FILM	0.47MF	5%	50V
C112	1-162-304-31	CERAMIC	0.0047MF	30%	16V	C216	1-136-167-00	FILM	0.15MF	5%	50V
C113	1-124-904-00	ELECT	2.2MF	20%	50V	C217	1-136-155-00	FILM	0.015MF	5%	50V
C114	1-110-203-00	MYLAR	0.0047MF	5%	50V	C218	1-136-169-00	FILM	0.22MF	5%	50V
C115	1-136-173-00	FILM	0.47MF	5%	50V	C219	1-136-163-00	FILM	0.068MF	5%	50V
C116	1-136-167-00	FILM	0.15MF	5%	50V	C220	1-136-161-00	FILM	0.047MF	5%	50V
C117	1-136-155-00	FILM	0.015MF	5%	50V	C221	1-110-205-00	MYLAR	0.0068MF	5%	50V
C118	1-136-169-00	FILM	0.22MF	5%	50V	C222	1-136-153-00	FILM	0.01MF	5%	50V
C119	1-136-163-00	FILM	0.068MF	5%	50V	C223	1-124-927-11	ELECT	4.7MF	20%	50V
C120	1-136-161-00	FILM	0.047MF	5%	50V	C224	1-124-183-00	ELECT	2.2MF	20%	50V
C121	1-110-205-00	MYLAR	0.0068MF	5%	50V	C225	1-124-927-11	ELECT	4.7MF	20%	50V
C122	1-136-153-00	FILM	0.01MF	5%	50V	C226	1-124-892-91	ELECT	47MF	20%	10V
C123	1-124-927-11	ELECT	4.7MF	20%	50V	C227	1-136-159-00	FILM	0.033MF	5%	50V
C124	1-124-183-00	ELECT	2.2MF	20%	50V	C228	1-162-284-31	CERAMIC	150PF	10%	50V
C125	1-124-927-11	ELECT	4.7MF	20%	50V	C229	1-136-273-91	FILM	75PF	5%	630V
C126	1-124-892-	ELECT	47MF	20%	10V	C230	1-136-440-91	FILM	39PF	5%	630V
C127	1-136-159-00	FILM	0.033MF	5%	50V	C234	1-124-907-00	ELECT	10MF	20%	50V
C128	1-162-284-31	CERAMIC	150PF	10%	50V	C238	1-136-155-00	FILM	0.015MF	5%	50V
C129	1-136-273-91	FILM	75PF	5%	630V	C239	1-110-201-00	MYLAR	0.0033MF	5%	50V
C130	1-136-440-	FILM	39PF	5%	630V	C240	1-110-203-00	MYLAR	0.0047MF	5%	50V
C134	1-124-907-00	ELECT	10MF	20%	50V	C243	1-110-204-00	MYLAR	0.0056MF	5%	50V
C138	1-136-155-00	FILM	0.015MF	5%	50V	C244	1-110-199-00	MYLAR	0.0022MF	5%	50V
C139	1-110-201-00	MYLAR	0.0033MF	5%	50V	C245	1-110-199-00	MYLAR	0.0022MF	5%	50V
C140	1-110-203-00	MYLAR	0.0047MF	5%	50V	C246	1-110-203-00	MYLAR	0.0047MF	5%	50V
C143	1-110-204-00	MYLAR	0.0056MF	5%	50V	C247	1-110-201-00	MYLAR	0.0033MF	5%	50V
C144	1-110-199-00	MYLAR	0.0022MF	5%	50V	C248	1-162-282-31	CERAMIC	100PF	10%	50V
						C249	1-162-282-31	CERAMIC	100PF	10%	50V

TC-W530/W535

ELECTRICAL PARTS						ELECTRICAL PARTS						ELECTRICAL PARTS						ELECTRICAL PARTS					
Ref.No.	Part No.	Description				Ref.No.	Part No.	Description				Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C250	1-162-290-31	CERAMIC	470PF	10%	50V	C852	1-124-904-00	ELECT	2.2MF	20%	50V	D801	8-719-107-94	DIODE 1SS202-1				Q302	8-729-194-57	TRANSISTOR 2SC945P			
C305	1-124-444-00	ELECT	220MF	20%	10V	C891	1-110-204-00	MYLAR	0.0056MF	5%	50V	D802	8-719-107-94	DIODE 1SS202-1				Q303	8-729-194-57	TRANSISTOR 2SC945P			
C306	1-124-444-00	ELECT	220MF	20%	10V	C892	1-124-892-91	ELECT	47MF	20%	10V	D805	8-719-302-74	DIODE SEL2210W-C-TP2				Q304	8-729-178-54	TRANSISTOR 2SC2785			
C307	1-124-444-00	ELECT	220MF	20%	10V	CN301	*1-564-506-11	PLUG, CONNECTOR 3P				D806	8-719-302-74	DIODE SEL2210W-C-TP2				Q305	8-729-900-61	TRANSISTOR DTA114ES			
C308	1-124-444-00	ELECT	220MF	20%	10V	CN302	*1-564-506-11	PLUG, CONNECTOR 3P				D809	8-719-107-94	DIODE 1SS202-1				Q306	8-729-178-54	TRANSISTOR 2SC2785			
C309	1-124-927-11	ELECT	4.7MF	20%	50V	CN303	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				D811	8-719-107-94	DIODE 1SS202-1				Q307	8-729-201-78	(TC-W530:US)...TRANSISTOR 2SD1406			
C310	1-124-892-91	ELECT	47MF	20%	10V	CN304	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				D812	8-719-107-94	DIODE 1SS202-1				Q307	8-729-107-24	(TC-W530:Canadian,AEP,TC-W535)			
C311	1-124-892-91	ELECT	47MF	20%	10V	CN305	*1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				D813	8-719-107-94	DIODE 1SS202-1				Q308	8-729-201-78TRANSISTOR 2SD1585			
C312	1-141-225-00	CAP, TUNING, TRIMAR				CN306	*1-564-507-11	PLUG, CONNECTOR 4P				D815	8-719-938-49	DIODE PG2232SY-B1				Q309	8-729-606-33	TRANSISTOR 2SC2603F			
C313	1-129-713-00	FILM	0.0082MF	10%	630V	CN308	*1-564-506-11	PLUG, CONNECTOR 3P				D819	8-719-938-49	DIODE PG2232SY-B1				Q310	8-729-117-54	TRANSISTOR 2SA1175			
C314	1-124-904-00	ELECT	2.2MF	20%	50V	CN309	*1-564-506-11	PLUG, CONNECTOR 3P				D820	8-719-938-84	DIODE AY3427S				Q311	8-729-117-54	TRANSISTOR 2SA1175			
C315	1-130-285-00	FILM	0.0033MF	5%	100V	CN508	*1-564-505-11	PLUG, CONNECTOR 2P				D822	8-719-913-36	DIODE PR2222S-B1				Q312	8-729-111-67	TRANSISTOR 2SB1094-L			
C316	1-130-285-00	FILM	0.0033MF	5%	100V	CN510	*1-564-509-11	PLUG, CONNECTOR 6P				D825	8-719-107-94	DIODE 1SS202-1				Q313	8-729-201-78	(TC-W530:US)...TRANSISTOR 2SD1406			
C317	1-130-285-00	FILM	0.0033MF	5%	100V	CN511	*1-564-509-11	PLUG, CONNECTOR 6P				F301	A.1-532-259-11	(TC-W530:AEP)...FUSE, TIME-LAG, 1.6A				Q313	8-729-107-24	(TC-W530:Canadian,AEP,TC-W535)			
C318	1-124-903-00	ELECT	1MF	20%	50V	CN512	*1-564-507-11	PLUG, CONNECTOR 4P				F301	A.1-532-555-11	(TC-W530:Canadian)				Q314	8-729-606-33TRANSISTOR 2SD1585			
C319	1-124-927-11	ELECT	4.7MF	20%	50V	CN514	*1-564-512-41	PLUG, CONNECTOR 9P				F302	A.1-532-259-11	(TC-W530:AEP)...FUSE, TIME-LAG, 1.6A				Q318	8-729-606-33	TRANSISTOR 2SC2603F			
C320	1-124-903-00	ELECT	1MF	20%	50V	CN516	*1-564-337-00	PIN, CONNECTOR 3P				F302	A.1-532-555-11	(TC-W530:Canadian)				Q501	8-729-900-65	TRANSISTOR DTA144ES			
C321	1-124-892-91	ELECT	47MF	20%	10V	CN518	*1-564-336-00	PIN, CONNECTOR 2P				IC303	8-759-600-02	IC M5218L				Q502	8-729-900-89	TRANSISTOR DTC144ES			
C322	1-124-892-91	ELECT	47MF	20%	10V	CN701	*1-558-235-11	(TC-W530)...CORD (WITH CONNECTOR)				IC304	8-759-984-66	IC MB84066B				Q503	8-729-212-02	TRANSISTOR 2SC2120-Y			
C324	1-124-472-11	ELECT	470MF	20%	10V	CN701	*1-558-456-11	(TC-W535)...CORD (WITH CONNECTOR)				IC305	8-759-602-01	IC M5220P				Q504	8-729-212-02	TRANSISTOR 2SC2120-Y			
C325	1-124-473-11	(TC-W530)...ELECT	1000MF	20%	10V	CN703	1-558-520-31	(TC-W530)...CORD (WITH CONNECTOR) 3P				IC306	8-759-602-01	IC M5220P				Q505	8-729-900-80	TRANSISTOR DTC114ES			
C326	1-124-443-00	ELECT	100MF	20%	10V	CN704	*1-558-520-11	(TC-W535)...CORD (WITH CONNECTOR) 3P				IC307	8-752-018-70	IC CX2018				Q506	8-729-103-43	TRANSISTOR 2SB734			
C327	1-123-321-00	ELECT	220MF	20%	16V	CN707	1-562-067-12	(TC-W535)...SOCKER CONNECTOR 5P				IC308	8-759-106-61	IC UPC4570HA				Q507	8-729-900-65	TRANSISTOR DTA144ES			
C328	1-123-321-00	ELECT	220MF	20%	16V	CNP801	*1-564-521-11	PLUG, CONNECTOR 6P				IC501	8-759-603-20	IC M50742-404SP				Q508	8-729-900-65	TRANSISTOR DTA144ES			
C329	1-124-557-11	ELECT	1000MF	20%	25V	D301	8-719-107-94	DIODE 1SS202-1				IC503	8-759-602-47	IC M50761-417P				Q509	8-729-103-43	TRANSISTOR 2SB734			
C330	1-124-557-11	ELECT	1000MF	20%	25V	D302	A.8-719-107-94	DIODE 1SS202-1				IC801	8-752-321-65	IC CXD1017Q				Q510	8-729-212-02	TRANSISTOR 2SC2120-Y			
C331	1-124-899-91	ELECT	22MF	20%	25V	D303	A.8-719-200-77	DIODE 10E2N				J301	1-563-249-11	(TC-W530)...JACK, LARGE TYPE				Q511	8-729-212-02	TRANSISTOR 2SC2120-Y			
C332	1-124-470-11	ELECT	470MF	20%	6.3V	D304	A.8-719-200-77	DIODE 10E2N				J302	1-507-908-11	JACK, PIN 4P				Q512	8-729-205-02	TRANSISTOR 2SA1150			
C333	1-124-907-00	ELECT	10MF	20%	50V	D305	A.8-719-200-77	DIODE 10E2N				L101	1-408-929-00	MICRO INDUCTOR 27MMH				Q513	8-729-205-02	TRANSISTOR 2SA1150			
C335	1-161-494-00	(TC-W535)...CERAMIC	0.022			D306	A.8-719-200-77	DIODE 10E2N				L102	1-408-920-00	MICRO INDUCTOR 4.7MMH				Q514	A.8-729-212-02	TRANSISTOR 2SC2120-Y			
C337	1-124-898-11	ELECT	4700MF	20%	16V	D307	8-719-914-13	DIODE HZ4CLL				L103	1-408-920-00	MICRO INDUCTOR 4.7MMH				Q515	8-729-103-43	TRANSISTOR 2SB734			
C342	1-124-907-00	ELECT	10MF	20%	50V	D308	8-719-107-94	(TC-W530)...DIODE 1SS202-1				L201	1-408-929-00	MICRO INDUCTOR 27MMH				Q516	8-729-212-02	TRANSISTOR 2SC2120-Y			
C343	1-124-907-00	ELECT	10MF	20%	50V	D309	8-719-910-69	DIODE HZ6C3L				L202	1-408-920-00	MICRO INDUCTOR 4.7MMH				Q517	8-729-212-02	TRANSISTOR 2SC2120-Y			
C501	1-124-892-91	ELECT	47MF	20%	10V	D310	8-719-107-94	(TC-W530)...DIODE 1SS202-1				L203	1-408-920-00	MICRO INDUCTOR 4.7MMH</									

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			
Q555	8-729-900-74	TRANSISTOR DTC143TS			
Q556	8-729-900-61	TRANSISTOR DTA114ES			
Q559	8-729-900-61	TRANSISTOR DTA114ES			
Q560	8-729-900-61	TRANSISTOR DTA114ES			
Q561	8-729-900-61	TRANSISTOR DTA114ES			
Q562	8-729-900-61	TRANSISTOR DTA114ES			
Q564	8-729-900-61	TRANSISTOR DTA114ES			
Q565	8-729-900-61	TRANSISTOR DTA114ES			
Q566	8-729-900-80	TRANSISTOR DTC114ES			
Q567	8-729-900-74	TRANSISTOR DTC143TS			
R101	1-247-713-11	CARBON	1K	5%	1/4W
R102	1-247-167-00	CARBON	33K	5%	1/4W
R103	1-249-433-11	CARBON	22K	5%	1/6W
R104	1-247-831-00	CARBON	1K	5%	1/6W
R108	1-247-717-11	CARBON	2.2K	5%	1/4W
R114	1-249-429-11	CARBON	10K	5%	1/6W
R115	1-247-857-00	CARBON	12K	5%	1/6W
R117	1-247-869-00	CARBON	39K	5%	1/6W
R119	1-247-700-11	(TC-W530)...CARBON	100	5%	1/4W
R126	1-246-521-00	CARBON	120K	5%	1/4W
R127	1-247-700-11	CARBON	100	5%	1/4W
R128	1-246-524-00	CARBON	130K	5%	1/4W
R129	1-247-149-00	CARBON	5.6K	5%	1/4W
R130	1-247-857-00	CARBON	12K	5%	1/6W
R131	1-247-859-00	CARBON	15K	5%	1/6W
R132	1-247-887-00	CARBON	220K	5%	1/6W
R133	1-247-843-00	CARBON	3.3K	5%	1/6W
R135	1-247-887-00	CARBON	220K	5%	1/6W
R136	1-247-851-00	CARBON	6.8K	5%	1/6W
R137	1-247-831-00	CARBON	1K	5%	1/6W
R138	1-249-425-11	CARBON	4.7K	5%	1/6W
R140	1-246-531-00	CARBON	270K	5%	1/4W
R141	1-247-700-11	CARBON	100	5%	1/4W
R142	1-246-524-00	CARBON	130K	5%	1/4W
R143	1-247-149-00	CARBON	5.6K	5%	1/4W
R144	1-247-857-00	CARBON	12K	5%	1/6W
R145	1-247-887-00	CARBON	220K	5%	1/6W
R146	1-247-859-00	CARBON	15K	5%	1/6W
R149	1-249-441-11	CARBON	100K	5%	1/6W
R150	1-249-441-11	CARBON	100K	5%	1/6W
R152	1-247-843-00	CARBON	3.3K	5%	1/6W
R153	1-247-851-00	CARBON	6.8K	5%	1/6W
R154	1-247-822-00	CARBON	430	5%	1/6W
R155	1-247-846-00	CARBON	4.3K	5%	1/6W
R156	1-247-840-00	CARBON	2.4K	5%	1/6W
R157	1-247-851-00	CARBON	6.8K	5%	1/6W
R158	1-249-415-11	CARBON	680	5%	1/6W
R159	1-249-429-11	CARBON	10K	5%	1/6W
R161	1-249-421-11	CARBON	2.2K	5%	1/6W
R162	1-249-429-11	CARBON	10K	5%	1/6W
R163	1-247-831-00	CARBON	1K	5%	1/6W
R164	1-249-441-11	CARBON	100K	5%	1/6W
R165	1-249-421-11	CARBON	2.2K	5%	1/6W
R166	1-247-887-00	CARBON	220K	5%	1/6W
R167	1-249-435-11	CARBON	33K	5%	1/6W
R168	1-249-437-11	CARBON	47K	5%	1/6W
R169	1-247-799-00	CARBON	47	5%	1/6W
R170	1-249-429-11	CARBON	10K	5%	1/6W

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			
R172	1-247-846-00	CARBON	4.3K	5%	1/6W
R174	1-249-405-11	CARBON	100	5%	1/6W
R175	1-247-854-00	CARBON	9.1K	5%	1/6W
R176	1-247-831-00	CARBON	1K	5%	1/6W
R177	1-247-845-00	CARBON	3.9K	5%	1/6W
R178	1-249-421-11	CARBON	2.2K	5%	1/6W
R179	1-249-441-11	CARBON	100K	5%	1/6W
R180	1-249-425-11	CARBON	4.7K	5%	1/6W
R181	1-249-441-11	CARBON	100K	5%	1/6W
R182	1-249-425-11	CARBON	4.7K	5%	1/6W
R183	1-249-459-11	CARBON	12K	5%	1/4W
R201	1-247-713-11	CARBON	1K	5%	1/4W
R202	1-247-167-00	CARBON	33K	5%	1/4W
R203	1-249-433-11	CARBON	22K	5%	1/6W
R204	1-247-831-00	CARBON	1K	5%	1/6W
R208	1-247-717-11	CARBON	2.2K	5%	1/4W
R214	1-249-429-11	CARBON	10K	5%	1/6W
R215	1-247-857-00	CARBON	12K	5%	1/6W
R217	1-247-869-00	CARBON	39K	5%	1/6W
R219	1-247-700-11	(TC-W530)...CARBON	100	5%	1/4W
R226	1-246-531-00	CARBON	270K	5%	1/4W
R227	1-247-700-11	CARBON	100	5%	1/4W
R228	1-246-524-00	CARBON	130K	5%	1/4W
R229	1-247-149-00	CARBON	5.6K	5%	1/4W
R230	1-247-857-00	CARBON	12K	5%	1/6W
R231	1-247-859-00	CARBON	15K	5%	1/6W
R232	1-247-887-00	CARBON	220K	5%	1/6W
R233	1-247-843-00	CARBON	3.3K	5%	1/6W
R235	1-247-887-00	CARBON	220K	5%	1/6W
R236	1-247-851-00	CARBON	6.8K	5%	1/6W
R237	1-247-831-00	CARBON	1K	5%	1/6W
R238	1-249-425-11	CARBON	4.7K	5%	1/6W
R240	1-246-531-00	CARBON	270K	5%	1/4W
R241	1-247-700-11	CARBON	100	5%	1/4W
R242	1-246-524-00	CARBON	130K	5%	1/4W
R243	1-247-149-00	CARBON	5.6K	5%	1/4W
R244	1-247-857-00	CARBON	12K	5%	1/6W
R245	1-247-887-00	CARBON	220K	5%	1/6W
R246	1-247-859-00	CARBON	15K	5%	1/6W
R249	1-249-441-11	CARBON	100K	5%	1/6W
R250	1-249-441-11	CARBON	100K	5%	1/6W
R252	1-247-843-00	CARBON	3.3K	5%	1/6W
R253	1-247-851-00	CARBON	6.8K	5%	1/6W
R254	1-247-822-00	CARBON	430	5%	1/6W
R255	1-247-846-00	CARBON	4.3K	5%	1/6W
R256	1-247-840-00	CARBON	2.4K	5%	1/6W
R257	1-247-851-00	CARBON	6.8K	5%	1/6W
R258	1-249-415-11	CARBON	680	5%	1/6W
R259	1-249-429-11	CARBON	10K	5%	1/6W
R261	1-249-421-11	CARBON	2.2K	5%	1/6W
R262	1-249-429-11	CARBON	10K	5%	1/6W
R263	1-247-831-00	CARBON	1K	5%	1/6W
R264	1-249-441-11	CARBON	100K	5%	1/6W
R265	1-249-421-11	CARBON	2.2K	5%	1/6W
R266	1-247-887-00	CARBON	220K	5%	1/6W
R267	1-249-435-11	CARBON	33K	5%	1/6W
R268	1-249-437-11	CARBON	47K	5%	1/6W

TC-W530/W535

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Power	Unit
R269	1-247-799-00	CARBON	47	5%	1/6W	
R270	1-249-429-11	CARBON	10K	5%	1/6W	
R272	1-247-846-00	CARBON	4.3K	5%	1/6W	
R274	1-249-405-11	CARBON	100	5%	1/6W	
R275	1-247-854-00	CARBON	9.1K	5%	1/6W	
R276	1-247-831-00	CARBON	1K	5%	1/6W	
R277	1-247-845-00	CARBON	3.9K	5%	1/6W	
R278	1-249-421-11	CARBON	2.2K	5%	1/6W	
R279	1-249-441-11	CARBON	100K	5%	1/6W	
R280	1-249-425-11	CARBON	4.7K	5%	1/6W	
R281	1-249-441-11	CARBON	100K	5%	1/6W	
R282	1-249-425-11	CARBON	4.7K	5%	1/6W	
R283	1-249-459-11	CARBON	12K	5%	1/4W	
R301	1-247-704-11	CARBON	220	5%	1/4W	
R302	1-247-704-11	CARBON	220	5%	1/4W	
R303	1-247-831-00	CARBON	1K	5%	1/6W	
R304	1-247-704-11	CARBON	220	5%	1/4W	
R305	1-247-704-11	CARBON	220	5%	1/4W	
R306	1-249-437-11	CARBON	47K	5%	1/6W	
R307	1-247-819-00	CARBON	330	5%	1/6W	
R308	△ 1-212-855-00	FUSIBLE	8.2	5%	1/4W	F
R309	1-249-433-11	CARBON	22K	5%	1/6W	
R310	1-249-433-11	CARBON	22K	5%	1/6W	
R311	1-249-429-11	CARBON	10K	5%	1/6W	
R312	1-247-854-00	CARBON	9.1K	5%	1/6W	
R313	1-247-846-00	CARBON	4.3K	5%	1/6W	
R314	1-247-828-00	CARBON	750	5%	1/6W	
R315	1-249-425-11	CARBON	4.7K	5%	1/6W	
R316	1-247-859-00	CARBON	15K	5%	1/6W	
R317	1-249-425-11	CARBON	4.7K	5%	1/6W	
R318	1-214-777-00	METAL	100K	1%	1/4W	
R319	1-247-133-00	CARBON	1.2K	5%	1/4W	
R320	1-247-133-00	CARBON	1.2K	5%	1/4W	
R321	1-247-704-11	CARBON	220	5%	1/4W	
R322	1-247-717-11	CARBON	2.2K	5%	1/4W	
R323	1-247-717-11	CARBON	2.2K	5%	1/4W	
R324	1-247-717-11	CARBON	2.2K	5%	1/4W	
R325	1-247-717-11	CARBON	2.2K	5%	1/4W	
R326	1-247-717-11	CARBON	2.2K	5%	1/4W	
R327	1-247-713-11	CARBON	1K	5%	1/4W	
R328	1-247-717-11	CARBON	2.2K	5%	1/4W	
R329	1-247-725-11	(TC-W530)...CARBON	10K	5%	1/4W	
R330	1-247-717-11	CARBON	2.2K	5%	1/4W	
R331	1-249-429-11	CARBON	10K	5%	1/6W	
R332	1-249-405-11	(TC-W530)...CARBON	100	5%	1/6W	
R334	1-247-837-00	CARBON	1.8K	5%	1/6W	
R335	1-249-421-11	CARBON	2.2K	5%	1/6W	
R336	1-247-831-00	CARBON	1K	5%	1/6W	
R337	1-249-429-11	CARBON	10K	5%	1/6W	
R338	1-247-831-00	CARBON	1K	5%	1/6W	
R339	1-249-429-11	CARBON	10K	5%	1/6W	
R342	1-249-425-11	CARBON	4.7K	5%	1/6W	
R343	1-249-437-11	CARBON	47K	5%	1/6W	
R344	1-247-831-00	CARBON	1K	5%	1/6W	
R345	1-249-425-11	CARBON	4.7K	5%	1/6W	
R346	1-249-441-11	CARBON	100K	5%	1/6W	
R353	1-247-851-00	(TC-W530)...CARBON	6.8K	5%	1/6W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description	Value	Tolerance	Power	Unit
R354	1-249-441-11	CARBON	100K	5%	1/6W	
R355	1-247-843-00	CARBON	3.3K	5%	1/6W	
R501	1-249-429-11	CARBON	10K	5%	1/6W	
R503	1-247-833-00	CARBON	1.2K	5%	1/6W	
R504	1-247-833-00	CARBON	1.2K	5%	1/6W	
R506	1-249-421-11	CARBON	2.2K	5%	1/6W	
R507	1-249-429-11	CARBON	10K	5%	1/6W	
R508	1-247-859-00	CARBON	15K	5%	1/6W	
R509	1-247-859-00	CARBON	15K	5%	1/6W	
R510	1-247-859-00	CARBON	15K	5%	1/6W	
R511	1-247-859-00	CARBON	15K	5%	1/6W	
R513	1-247-833-00	CARBON	1.2K	5%	1/6W	
R514	1-247-841-00	CARBON	2.7K	5%	1/6W	
R515	1-249-414-11	CARBON	560	5%	1/6W	
R516	1-247-833-00	CARBON	1.2K	5%	1/6W	
R517	1-247-833-00	CARBON	1.2K	5%	1/6W	
R518	1-247-833-00	CARBON	1.2K	5%	1/6W	
R519	1-247-833-00	CARBON	1.2K	5%	1/6W	
R520	1-247-833-00	CARBON	1.2K	5%	1/6W	
R521	1-247-841-00	CARBON	2.7K	5%	1/6W	
R522	1-249-414-11	CARBON	560	5%	1/6W	
R523	1-247-833-00	CARBON	1.2K	5%	1/6W	
R524	1-247-833-00	CARBON	1.2K	5%	1/6W	
R525	1-247-833-00	CARBON	1.2K	5%	1/6W	
R526	1-247-833-00	CARBON	1.2K	5%	1/6W	
R529	1-247-811-00	CARBON	150	5%	1/6W	
R530	1-247-811-00	CARBON	150	5%	1/6W	
R532	1-247-795-00	CARBON	33	5%	1/6W	
R534	1-247-823-00	CARBON	470	5%	1/6W	
R535	1-247-799-00	CARBON	47	5%	1/6W	
R536	1-247-795-00	CARBON	33	5%	1/6W	
R540	1-249-429-11	CARBON	10K	5%	1/6W	
R542	1-249-421-11	CARBON	2.2K	5%	1/6W	
R543	1-249-421-11	CARBON	2.2K	5%	1/6W	
R544	1-249-421-11	CARBON	2.2K	5%	1/6W	
R545	1-249-421-11	CARBON	2.2K	5%	1/6W	
R546	1-249-421-11	CARBON	2.2K	5%	1/6W	
R547	1-249-421-11	CARBON	2.2K	5%	1/6W	
R548	1-249-421-11	CARBON	2.2K	5%	1/6W	
R553	1-249-425-11	(TC-W530)...CARBON	4.7K	5%	1/6W	
R554	1-247-831-00	CARBON	1K	5%	1/6W	
R555	1-247-831-00	(TC-W530)...CARBON	1K	5%	1/6W	
R556	1-249-441-11	CARBON	100K	5%	1/6W	
R557	1-249-434-11	CARBON	27K	5%	1/6W	
R558	1-249-429-11	CARBON	10K	5%	1/6W	
R559	1-247-815-00	CARBON	220	5%	1/6W	
R560	1-249-441-11	CARBON	100K	5%	1/6W	
R561	1-249-429-11	CARBON	10K	5%	1/6W	
R583	1-249-429-11	CARBON	10K	5%	1/6W	
R585	1-249-441-11	CARBON	100K	5%	1/6W	
R586	1-247-857-00	CARBON	12K	5%	1/6W	
R587	1-249-432-11	CARBON	18K	5%	1/6W	
R588	1-249-405-11	(TC-W530)...CARBON	100	5%	1/6W	
R589	1-249-433-11	CARBON	22K	5%	1/6W	
R590	1-247-783-00	CARBON	10	5%	1/6W	
R593	1-249-429-11	CARBON	10K	5%	1/6W	
R594	1-249-429-11	CARBON	10K	5%	1/6W	

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>100K</u>	<u>5%</u>	<u>1/6W</u>
R595	1-249-441-11	CARBON	100K	5%	1/6W
R596	1-249-441-11	CARBON	100K	5%	1/6W
R597	1-249-441-11	CARBON	100K	5%	1/6W
R598	1-249-441-11	CARBON	100K	5%	1/6W
R599	1-247-783-00	CARBON	10	5%	1/6W
R600	1-247-783-00	CARBON	10	5%	1/6W
R601	1-247-783-00	CARBON	10	5%	1/6W
R602	1-247-783-00	CARBON	10	5%	1/6W
R605	1-247-879-00	CARBON	100K	5%	1/6W
R606	1-247-879-00	CARBON	100K	5%	1/6W
R607	1-249-441-11	CARBON	100K	5%	1/6W
R608	1-247-903-00	CARBON	1M	5%	1/6W
R610	1-249-421-11	CARBON	2.2K	5%	1/6W
R611	1-249-429-11	CARBON	10K	5%	1/6W
R613	1-247-836-00	CARBON	1.6K	5%	1/6W
R614	1-247-836-00	CARBON	1.6K	5%	1/6W
R615	1-249-429-11	CARBON	10K	5%	1/6W
R616	1-249-429-11	CARBON	10K	5%	1/6W
R621	1-249-434-11	CARBON	27K	5%	1/6W
R627	1-247-815-00	CARBON	220	5%	1/6W
R628	1-249-421-11	CARBON	2.2K	5%	1/6W
R631	1-249-441-11	CARBON	100K	5%	1/6W
R634 A	1-206-467-00	METAL OXIDE	15	5%	2W
R635	1-247-903-00	CARBON	1M	5%	1/6W
R636	1-247-841-00	CARBON	2.7K	5%	1/6W
R801	1-247-872-00	CARBON	51K	5%	1/6W
R802	1-249-437-11	CARBON	47K	5%	1/6W
R803	1-247-903-00	CARBON	1M	5%	1/6W
R851	1-247-872-00	CARBON	51K	5%	1/6W
R852	1-249-437-11	CARBON	47K	5%	1/6W
R853	1-247-903-00	CARBON	1M	5%	1/6W
R891	1-247-893-00	CARBON	390K	5%	1/6W
R893	1-247-815-00	CARBON	220	5%	1/6W
R894	1-247-834-00	CARBON	1.3K	5%	1/6W
R895	1-249-441-11	CARBON	100K	5%	1/6W
RV101	1-228-670-00	RES, VAR, SLIDE 20K			
RV102	1-228-994-00	RES, ADJ, CARBON 10K			
RV103	1-228-994-00	RES, ADJ, CARBON 10K			
RV104	1-228-994-00	RES, ADJ, CARBON 10K			
RV201	1-228-670-00	RES, VAR, SLIDE 20K			
RV202	1-228-994-00	RES, ADJ, CARBON 10K			
RV203	1-228-994-00	RES, ADJ, CARBON 10K			
RV204	1-228-994-00	RES, ADJ, CARBON 10K			
RV501	1-228-995-00	RES, ADJ, CARBON 22K			

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
RV502	1-228-995-00	RES, ADJ, CARBON 22K
RV503	1-228-995-00	RES, ADJ, CARBON 22K
RV504	1-228-995-00	RES, ADJ, CARBON 22K
RY301	1-515-547-11	RELAY
S301	1-570-499-11	SWITCH, PUSH (3 KEY)
S302	1-570-531-11	SWITCH, PUSH (2 KEY)
S303	1-570-103-21	SWITCH, PUSH (1 KEY)
S801	1-554-980-11	SWITCH, KEY BOARD
S802	1-554-980-11	SWITCH, KEY BOARD
S805	1-554-980-11	SWITCH, KEY BOARD
S807	1-554-980-11	SWITCH, KEY BOARD
S808	1-554-980-11	SWITCH, KEY BOARD
S809	1-554-980-11	SWITCH, KEY BOARD
S810	1-554-980-11	SWITCH, KEY BOARD
S812	1-554-980-11	SWITCH, KEY BOARD
S813	1-554-980-11	SWITCH, KEY BOARD
S814	1-554-980-11	SWITCH, KEY BOARD
S815	1-554-980-11	SWITCH, KEY BOARD
S816	1-554-980-11	SWITCH, KEY BOARD
S817	1-554-980-11	SWITCH, KEY BOARD
SPK101	1-235-186-00	ENCAPSULATED COMPONENT
SPK201	1-235-186-00	ENCAPSULATED COMPONENT
T301	1-433-309-11	TRANSFORMER, BIAS OSCILLATION
T901 A	1-448-376-11	(TC-W530:US,Canadian) TRANSFORMER, POWER
T901 A	1-448-377-11	(TC-W530:AEP).....TRANSFORMER, POWER
X501	1-527-802-00	OSCILLATOR, CERAMIC
X502	1-527-532-00	OSCILLATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

<u>Part No.</u>	<u>Description</u>
1-558-233-11	(TC-W530)....CORD (WITH CONNECTOR)(SIRCS)4P
1-558-543-11	(TC-W530)...CORD, CONNECTION
3-330-028-11	INDIVIDUAL CARTON
3-332-448-01	CUSHION
3-701-630-00	BAG, POLYETHYLENE
3-701-630-01	(TC-W530)....BAG, POLYETHYLENE
3-703-450-01	INSTRUCTION
3-765-226-11	(TC-W530:AEP).....MANUAL, INSTRUCTION
3-765-226-21	(TC-W530:US,Canadian)....MANUAL, INSTRUCTION
3-765-226-31	(TC-W530:Canadian).....MANUAL, INSTRUCTION
3-765-226-41	(TC-W530:AEP).....MANUAL, INSTRUCTION
4-876-352-00	(TC-W530)....SHEET, PROTECTION

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TC-W530/W535

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